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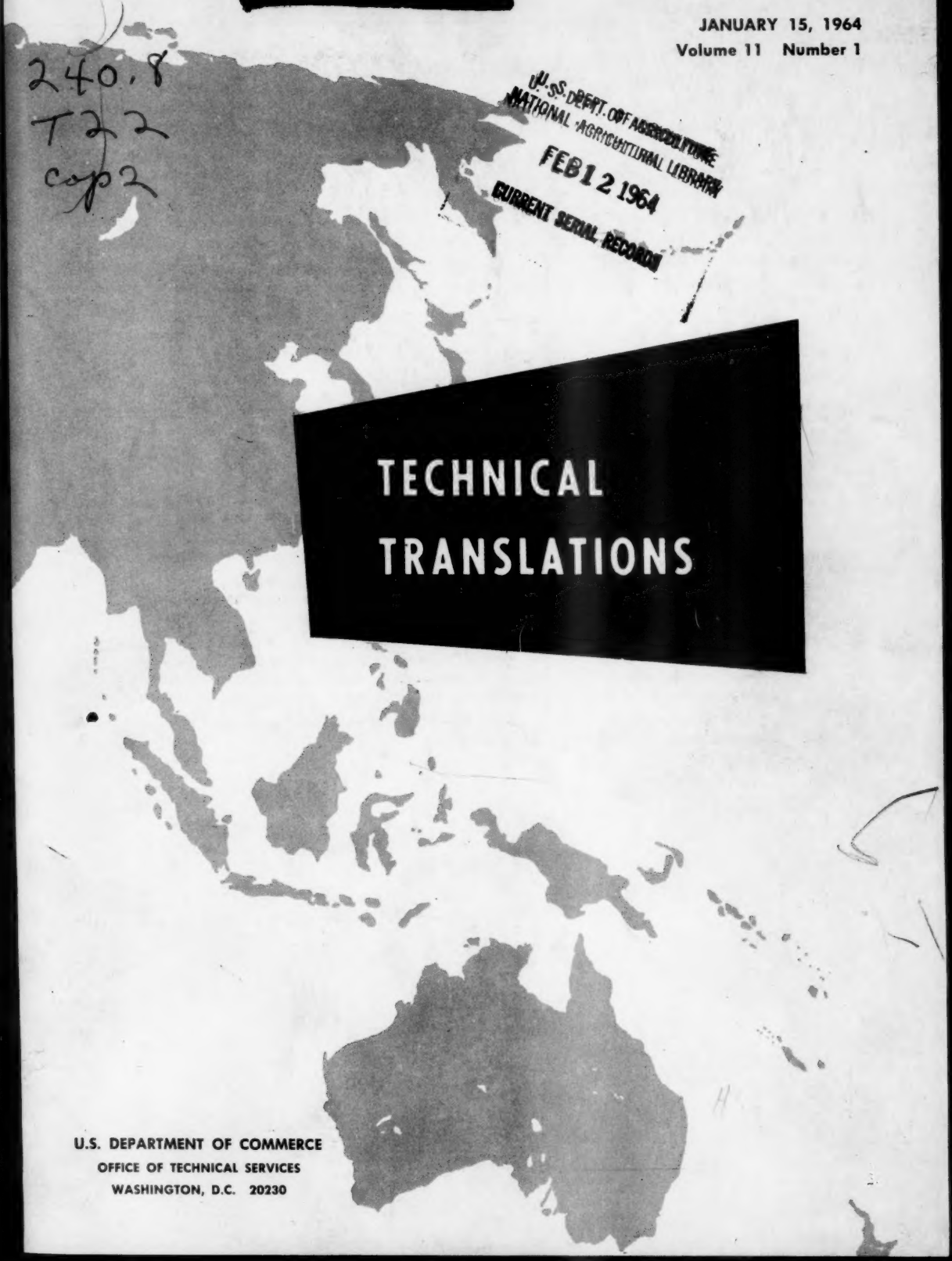

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
OFFICE OF TECHNICAL SERVICES
WASHINGTON, D.C. 20230

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, Secretary

OFFICE OF TECHNICAL SERVICES
Donald A. Schon, Director

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961

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The Special Libraries Association is responsible for collecting translations from non-Government sources, both domestic and foreign; the Office of Technical Services for collecting translations from both U.S. and foreign government sources since 1940.

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U. S. DEPARTMENT OF COMMERCE
Luther H. Hodges, Secretary

Office of Technical Services
Donald A. Schon, Director

NOTICE

Beginning with Volume 11, Number 1 certain changes are being made in the format and contents of Technical Translations.

Abstracts or descriptors of the translations will no longer be included. While retaining the general grouping of translations by subject, Technical Translations now will serve its intended "clearinghouse" function more effectively. By becoming a title list, it will be possible to provide information more promptly on a greater number of translations.

In those cases where abstracts of translations are available separately on catalog cards, the notation "abstracts available" will be included at the end of the translation note.

Translations of separate articles which have been bound in one volume will be included as separate entries in order to give more detailed information on translations available. Journals translated cover-to-cover will be represented by reproduced tables of contents.

The subject index will no longer appear in the semi-monthly issues of Technical Translations. The Personal Author, Journal, and Translation Number Indexes will continue to be included, however.

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HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

Some of the translations available from OTS or SLA are supplied in printed form; others are Xerox reproductions. Prices are lis ed in each entry. Any reports available from OTS or SLA will be provided in microfilm (35mm) on request. The following prices are charged for microfilm: 1 through 20 pages, 80 cents minimum, and three cents per page for every page in excess of 20 pages. Translations ordered from other sources, unless specific information is given to the contrary in the journal entry, are in printed form.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood,
California 90046

AGI
AGI Translations Office
American Geological Institute
2101 Constitution Ave., N. W.
Washington, D. C. 20000

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
1515 Massachusetts Ave., N. W.
Washington, D. C. 20005

AIAA
American Institute of Aeronautics & Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

ANSP
Academy of Natural Sciences of Philadelphia
19th St. & The Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743,
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIRO
Commonwealth Scientific and Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D.C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D.C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D.C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P.O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P.O. Box 569
London, S.E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers "Kultura"
Budapest 62, P.O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service N. V.
P.O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
14 Shammai Street
P.O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D.C. 20540

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S.E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics & Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NRCC
National Research Council Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
Office of Technical Services
Department of Commerce
Washington, D. C. 20230
(Also available through Department of Commerce Field Offices)

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
1069 Minami Nakadori 2-chome
Fujisawa, Japan

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TF
Taylor & Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TIB
Technische Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W. C. 2, England

TTIS
Translation & Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

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4400 Forbes Street
Pittsburgh, Pennsylvania 15213

Georgia Institute of Technology
Price Gilbert Library
Atlanta, Georgia 30300

MIT Libraries
Technical Reports, Room 14-E210
Massachusetts Institute of Technology
Cambridge, Massachusetts 02139

The Pennsylvania State University
University Park, Pennsylvania 16801

University of California
Engineering Library
Los Angeles, California 90000

University of Utah
University of Utah Library
Salt Lake City, Utah 84100

Library of Congress
Washington, D. C. 20540

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Volume 4 July - December	1960	$1.00
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TECHNICAL TRANSLATIONS

Volume 11, Number 1 Pages 1 - 70 January 15, 1964

AGRICULTURE

ALL-CHINA CONFERENCE ON AGRICULTURAL SCIENCE AND TECHNOLOGY [8 FEB 63]. 20 Sep 63, 5p JPRS: 21166.
Order from OTS $1.25 in TT-63-31800 (p. 32-36)

Trans. of Chung Kuo Nung Yeh K'o Hsüeh (Chinese People's Republic) 1963, no. 5, p. 53.

NEW MACHINES FOR ANIMAL HUSBANDRY DESIGNED BY INNER MONGOLIA WORKS. 24 Oct 63, 2p JPRS: 21587.
Order from OTS $2.25 in TT-63-31998 (p. 25-26)

Trans. of Chung Kuo Hsin Wen (Chinese People's Republic) 1963, 26 Aug, p. 5.

ORGANIZATION OF SCIENTIFIC RESEARCH COORDINATED WITH TEACHING. 24 Oct 63, 17p JPRS: 21587.
Order from OTS $2.25 in TT-63-31998 (p. 69-85)

Trans. from Kuang Ming Jih Pao (Chinese People's Republic) 1963, 11 Sep, p. 2. (Abstract available)

Chang, Han-chieh.
RICE CROPPING AND SOIL IMPROVEMENT OF SALINIZED AREAS IN HOPEI, SHANTUNG, AND HONAN PROVINCES. 19 Sep 63, 20p JPRS: 21150.
Order from OTS $1.50 in TT-63-31795 (p. 1-20)

Trans. from Kuang Ming Jih Pao (Chinese People's Republic) 1963, 30 Jul, p. 4.

Huang, Kuang-ming.
AN EXPERIMENT ON THE CONTROL OF WHEAT RUST BY FLUORIDE-BARIUM MIXTURE. 19 Sep 63, 13p JPRS: 21150.
Order from OTS $1.50 in TT-63-31795 (p. 42-54)

Trans. from Chung Kuo Nung Yeh K'o Hsüeh (Chinese People's Republic) 1963, no. 4, p. 45-48.

Mashek, A. A.
A REVIEW OF FORAGE-GRASS PESTS OCCURRING IN THE LENINGRAD REGION, tr. by R. Ericson. June 60, 3p 8refs
Order from OTS, SLA, or ETC $1.10 TT-63-23597

Trans. of Ent[omologicheskoe] Obozr[enie] (USSR) 1957, v. 36, no. 3, p. 625-631.

Miguet, Paul-Louis-Joseph and Perron, Marcel-Paul.
CULTIVATING APPARATUS FOR BROKEN UP SOILS, AND METHOD OF UTILIZATION THEREOF, tr. by P. C. C. 9 Aug 63, 19p (figs omitted).
Order from OTS, SLA, or ETC $1.60 TT-63-23771

Trans. of French patent 886,890, gr. 1, cl. 1, filed 20 June 41, granted 19 July 43, pub. 27 Oct 43.

Animal Husbandry

Likhachev, N. V., Orlov, S. D., and Shemanova, G. F.
EXPERIMENTS ON OBTAINING FOOT-AND-MOUTH DISEASE VACCINE FROM A VIRUS CULTIVATED ON TISSUE CULTURE (Opyty Polucheniya Vaksiny Protiv Yashchura iz Virusa, Vyrashchennogo v Kul'ture Tkani). 6 Sep 63, 5p. Trans. V-1850.
Order from OTS, SLA or ETC $1.10 TT-63-23807

Trans. of Veterinariya (USSR) 1963, v. 40, no. 3, p. 64-65. (Abstract available)

Yarnykh, V. S.
AN APPARATUS FOR THE FORMATION OF AEROSOLS (Apparat dlya Polucheniya Aerozolei). 22 July 63, 3p (figs omitted). Trans. V-1837.
Order from OTS, SLA, or ETC $1.10 TT-63-23336

Trans. of Veterinariya (USSR) 1963, v. 40, no. 1, p. 79-81.

Plant Cultivation

Aivazyan, L. K.
LARGE TABLE GRAPES (O Krupnoyagodnykh Formakh Stolovogo Vinograda) tr. by B. Ribush. [1963] [8]p. (foreign text included). [CSIRO] Trans. no. 6332.
Order from OTS, SLA, or ETC $1.10 TT-63-23744

Trans. of Vinodelie i Vinogradarstvo SSSR, 1962 [v. 22] no. 6, p. 18-21. (Abstract available)

Kravhcenko, V. M.
OUR EXPERIENCE IN OBTAINING HIGH YIELDS OF GRAPES (Nash Opyt Polucheniya Vysokikh Urozhaev Vinograda) tr. by B. Ribush. [1963] [9]p. (foreign text included). [CSIRO] Trans. no. 6330.
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Trans. of Vinodelie i Vinogradarstvo SSSR, 1962 [v. 22] no. 6, p. 47-50. (Abstract available)

Mishurenko, A. G. and Nagornyi, N. I.
ECONOMIC ASPECTS OF DIFFERENT METHODS OF PRUNING AND TOPPING GRAPEVINES (Ekonomicheskaya Effektivnost' Razlichnykh Sposobov Pasynkovaniya i Chekanki Pobegov) tr. by B. Ribush. [1963] [6]p. (foreign text included). [CSIRO] Trans. no. 6331.
Order from OTS, SLA, or ETC $1.10 TT-63-23745

Trans. of Vinodelie i Vinogradarstvo SSSR, 1962 [v. 22] no. 6, p. 29-31. (Abstract available)

Szabo, Jozsef.
VINE-PROPPING EQUIPMENT, tr. by L. H. 21 Jun 63, 4p (figs omitted)
Order from OTS, SLA, or ETC $1.10 TT-63-23168

Trans. of Hungarian patent 48,513, cl. X/b, appl. 26 June 09, pub. 15 Apr 10.

Tai, Sung-en.
THE PROBLEM OF SCIENTIFIC EXPERIMENT ON CROP PLANTING. 24 Oct 63, 24p JPRS: 21587.
Order from OTS $2.25 in TT-63-31998 (p. 45-68)

Trans. from Jen Min Jih Pao (Chinese People's Republic) 1963, 17 Sep, p. 5. (Abstract available)

Turyanskii, G. F.
EXTRAGEMINAL FORMATION OF INFLORESCENCES ON THE GRAPEVINE (Vnepochechnoe Obrazovanie Sotsvetii u Vinograda) tr. by B. Ribush. [1963] [7]p. (foreign text included) 3 refs. [CSIRO] Trans. no. 6190.
Order from OTS, SLA, or ETC $1.10 TT-63-23407

Trans. of Vinodelie i Vinogradarstvo SSSR, 1950 [v. 10] no. 7, p. 17-19.

ASTRONOMY

Deich, A. N.
61 CYGNUS AS A TRIPLE SYSTEM. 23 July 63 [5]p RSIC-35
Order from OTS, SLA, or ETC $1.10 TT-63-23554

Trans. from Priroda (USSR) 1944, v. 33.

Gorynya, A[nton] A[geevich] and Drofa, V[asilii] K[irillo].
RELIEF OF THE EDGE ZONE OF THE MOON (BASED ON THE PHOTOGRAPHIC OBSERVATIONS ON THE ASTROGRAPH OF THE ASTRONOMIC OBSERVATORY OF THE SHEVCHENKO STATE UNIVERSTIY, KIEV) [SELECTED PART] tr. by George Synenko. Apr 63 [12]p ACIC-TC-612
Order from OTS, SLA, or ETC $1.60 TT-63-19539

Trans. of mono. Rel'ef Kraevoi Zony Luny [po Fotograficheskim Nablyudeniyam na Astrografe Astronomicheskoi Observatorii Kievskogo Gosudarstvennogo Universiteta im. T. G. Shevchenko] Kiev, 1962, p. 3-8.

Astrophysics

SOVIET-BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND SPACE, NO. 70. 4 Nov 63, 32p. JPRS: 21728.
Order from OTS $16.00/year TT-61-11147-70
foreign $20.00/year

Consists of news items and abstracts of scientific articles on astronomy, meteorology, oceanography, terrestrial geophysics, upper atmosphere and space research, and other miscellaneous subjects.

Ch'en, Piao.
THE BEHAVIOR OF NON-RELATIVISTIC ELECTRONS IN A MAGNETIC FIELD AND ITS APPLICATION IN SOLAR PHYSICS, tr. by Norman Ng. Jan 63 [14]p 8refs Emmanuel Coll. E-T-Ch-63-3
Order from OTS or SLA $1.60 TT-63-23417

Trans. of T'ien Wen Hsüeh Pao (Chinese People's Republic) 1959, v. 7, no. 2, p. [163]-174.
An abstract trans. is available from OTS or SLA $1.10 as 60-23846, AID-60-17, 20 July 60, 2p.

Pavlov, V. E.
PHOTOELECTRIC SELF-RECORDING DAY-SKY PHOTOMETER AND INDICATRIX OF THE SCATTERING OF LIGHT IN THE EARTH'S ATMOSPHERE, INCLUDING SMALL ANGLES OF SCATTERING (Fotoelektricheskii Samoregistriruyushchii Fotometr Dnevnogo Neba i Indikatrisa Rasseyaniya Sveta v Zemnoi Atmosfere, Vklyuchaya Malye Vgly Rasseyaniya). AID Work Assignment no. 35. 5 Aug 63 [6]p. 3 refs. AID Rept. T-63-104.
Order from OTS, SLA, or ETC $1.10 TT-63-23809

Trans. of Akademiya Nauk Kazakhskoi SSR [Alma Ata]. Astrofizicheskii Institut. Trudy, 1962, v. 3, p. 62-65. (Abstract available)

Slysh, V. I.
POLARIZATION OF THE CYGNUS A RADIOGALAXY (Polyarizatsiya Radiogalaktiki Lebed' A) tr. by Robert Magruder. Mar 63 [5]p. AmMetSoc T-R-400.
Order from OTS, SLA, or ETC $1.10 TT-63-23708

Trans. of Priroda (USSR) 1962 [v. 51] no. 11, p. 106-107.

BEHAVIORAL SCIENCES

ON THE 75TH BIRTHDAY AND 50TH ANNIVERSARY OF SCIENTIFIC-PEDAGOGICAL ACTIVITY OF PROFESSOR B. A. OSTROUMOV. 18 Oct 63, 6p JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 233-238)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 212-213.

BIOLOGICAL SCIENCES

FEDERATION PROCEEDINGS TRANSLATION SUPPLEMENT, VOL. 22, NO. 5, PT. II, P. T785-T1008
Order from FASEB $2.00, $10.00/year or $12.00/year with Federation Proceedings

Separate entries have been prepared for the individual translations included in this issue.

GENERAL MEETINGS OF THE DEPARMTNETS [OF THE ACADEMY OF SCIENCES USSR]. 29 Apr 63, 12p Trans-A-1390
Order from OTS, SLA, or ETC $1.60 TT-63-19460

Partial trans. (p. 49-53) of Akademiya Nauk SSSR. Vestnik, 1963 [v. 33) no. 3, p. 36-76. (Abstract available)

AT THE CONGRESSES, CONFERENCES AND PLENARY SESSIONS. 27 June 63 [4]p. FTD-TT-63-546.
Order from OTS, SLA, or ETC $1.10 TT-63-23530

Unedited rough draft trans. from Meditsinskaya Gazeta (USSR) 1963 [v. 26] 1 Mar, p. 3. (Abstract available)

Adzhiev, B. L.
CONTENT AND DISTRIBUTION OF TYROSINE IN MALIGNANT TUMORS (HISTOCHEMICAL INVESTIGATION). 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Patologii (USSR) 1962, v. 24, no. 10, p. 52ff. (Abstract available)

Andreev, S. V., Molchanova, V. A., and Martens, B. K.
USE OF RADIOACTIVE ISOTOPES FOR TAGGING HADENA SORDIDA SKH. MOTHS. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Zoologicheskii Zhurnal (USSR) 1962, v. 41, no. 1, p. 85-[91].
Another trans. is available from OTS $2.50 in 63-31138, JPRS-19894, 27 June 63, 100p. (Abstract available)

Aptekar', S. G.
RIBOFLAVIN CONTENT IN ORGANS OF RATS WITH TRANSPLANTED TUMORS. 1963, 5p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Patologii (USSR) 1962, v. 24, no. 10, p. 45ff. (Abstract available)

Barsukov, N. A.
EXPERIMENTAL INVESTIGATION OF STREPTOMYCIN ELECTROPHORESIS IN PYOINFLAMMATORY DISEASES. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Sovetskaya Meditsina (USSR) 1963, v. 26, no. 1, p. 129-[133]. (Abstract available)

Basic, M and Belancic, I.
THE POST-CHOLECYSTECTOMIC SYNDROME IN THE LIGHT OF MODERN CHOLANGIOGRAPHIC EXAMINATION METHODS. 1963, 12p 36refs PL-480 HEW.
Order from OTS $0.57 in TT-62-11763/7 (p. 13-24)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 7, p. 649-659. (Abstract available)

Chagovets, R. V. and Shtutman, Ts. M.
CHANGES IN GLUCOSE SYNTHESIS AND UTILIZATION IN RATS TREATED WITH CHLORPROMAZINE. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR) 1962, v. 34, no. 1, p. 56-[63].
A partial trans. (summary) is available from OTS or SLA $1.10 as 62-20317 [1962] 2p. (Abstract available)

Chilingaryan, A. A., Pavlov, E. F., and Magakyan, Yu. A.
CHANGES IN THE PIGMENTATION AND EMBRYOGENESIS IN PEKIN DUCKS UNDER THE INFLUENCE OF THE INTRODUCTION OF ALIEN CELL NUCLEI (Izmeniya v Pigmentatsii i Embriogeneze u Pekinskikch Utok pod Vliyaniem Vvedeniya Chuzherodnykh Kletochnych Yader). 11 July 63, 19p. (figs. omitted). Trans. A-1394.
Order from OTS, SLA, or ETC $1.60 TT-63-23125

Trans. of Agrobiologiya (USSR) 1960, no. 6, p. 903-910.

Faltova, E., Hahn, P., and Koldovskii, O.
GLUCOSE ABSORPTION FROM SMALL INTESTINE AND ITS ENDOCRINE REGULATION DURING POSTNATAL DEVELOPMENT. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of #Fiziologicheskii Zhurnal SSSR, 1962, v. 48, no. 11, p. 1392ff. (Abstract available)

Fanardzhyan, V. V.
INTERACTION OF AFFERENT SYSTEMS OF THE CEREBELLUM. 1963, 5p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of #Fiziologicheskii Zhurnal SSSR, 1962, v. 48, no. 7, p. 823ff. (Abstract available)

Garagash'yan, A. A.
RADIOIODINE STUDY OF THYROID FUNCTION IN THYROTOXICOSIS AND ENDEMIC GOITER. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Meditsinskaya Radiologiya (USSR) 1962, v. 7, no. 5, p. 6-[13]. (Abstract available)

Gerchikova, T. N.
CHANGES IN SODIUM AND POTASSIUM CONTENT OF PLASMA AND ERYTHROCYTES IN PATIENTS WITH MYOCARDIAL INFARCTION. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Terapevticheskii Arkhiv (USSR) 1962, v. 34, no. 12, p. 38ff. (Abstract available)

Goncharova, V. I. and Bobkova, E. D.
STIMULATION OF ADRENAL CORTEX BY CERTAIN ANTIBIOTICS OF THE MACROLIDE GROUP. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of #Antibiotiki (USSR) 1963, v. 8, no. 1, p. 58ff. (Abstract available)

Gryaznova, A. V.
LIGATION OF THE THORACIC DUCT IN DOGS. 1963, 5p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Anatomii, Gistologii i Embriologii (USSR) 1962, v. 42, no. 5, p. 90-[97].

Il'in, V. S. and Kil'dema, L. A.
EFFECT OF CORTISONE AND INSULIN ON LEUKOCYTE HEXOKINASE ACTIVITY. 1963, 2p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Voprosy Meditsinskoi Khimii (USSR) 1962, v. 8, no. 4, p. 374-[378]. (Abstract available)

Ivanov, A. E.
ASEPTIC INFLAMMATION IN THE LUNGS IN ACUTE RADIATION SICKNESS. 1963, 5p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Patologii (USSR) 1962, v. 24, no. 11, p. 34ff. (Abstract available)

Ivanova, L. N. and Vinogradov, V. V.
HISTOCHEMICAL FEATURES OF MUCOPOLYSACCHARIDES IN INTERSTITIAL TISSUE OF RENAL MEDULLA. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Anatomii, Gistologii i Embriologii (USSR) 1962, v. 43, no. 11, p. 18ff. (Abstract available)

Karagezyan, K. G. and Urgandzhyan, M. G.
ARTERIOVENOUS DIFFERENCE IN BLOOD CHOLESTEROL LEVELS IN DIFFERENT FUNCTIONAL STATES OF THE CEREBRAL CORTEX. 1963, 3p
Order from FASEB in Federational Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of #Fiziologicheskii Zhurnal SSSR, 1962, v. 48, no. 11, p. 1377ff. (Abstract available)

Kareva, G. F.
EFFECT OF DRUGS ON CORONARY CIRCULATION DURING EXPERIMENTAL SPASM OF THE CARDIAC VESSELS. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Akademiya Meditsinskikh Nauk SSSR. Vestnik 1963, v. 18, no. 1, p. 28-[32].
Another trans. is available from OTS $2.75 in 63-21331, JPRS-18152, 18 Mar 63 [142p].

Kerkis, Yu. Ya.
ON THE MUTATION THEORY OF AGING (O Mutatsionnoi Teorii Stareniya Organizmov). Reported at the Joint Conference of the Section of Genetics and Gerontology, MOIP, 18 Oct 62. 19 July 63, 11p. 14 refs. Trans. A-1398.
Order from OTS, SLA, or ETC $1.60 TT-63-23182

Trans. of Moskovskoe Obshchestvo Ispytatelei Prirody. Byulleten'. Otdel Biologicheskii (USSR) 1963, v. [38]68, no. 2, p. 126-129.

Kibardin, S. A. and Boldasov, V. K.
ISOLATION OF INFLUENZA VIRUS FROM ALLANTOIC FLUID BY MEANS OF CHROMATOGRAPHY ON HYDROXYLAPATITE. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Voprosy Meditsinskoi Khimii (USSR) 1962, v. 8, no. 6, p. 631ff. (Abstract available)

Klemparskaya, N. N. and Raeva, N. V.
EFFECT OF PRELIMINARY IMMUNIZATION WITH LIVING AND KILLED E. COLI CELLS ON RADIORESISTANCE OF ANIMALS. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Radiobiologiya (USSR) 1962, v. 2, no. 1, p. 134ff.
Another trans. is available from OTS $3.50 in AEC-tr-5428, Mar 63, 267p. (Abstract available)

Kochetkova, T. A., Avrunina, G. A., and Sagaidak, N. D.
REMOTE CARCINOGENIC EFFECTS OF CERTAIN RADIOACTIVE COMPOUNDS. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Patologii (USSR) 1962, v. 24, no. 5, p. 3-[7].
Another trans. is available from OTS or SLA $1.60 as TT-62-23275, JPRS-14762, 8 Aug 62 [14p]. (Abstract available)

Kononyachenko, V. A. and Chapidze, G. E.
EFFECTS OF GANGLERON AND HEXONIUM ON REGIONAL BLOOD FLOW IN PATIENTS WITH ARTERIAL HYPERTENSION. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Klinicheskaya Meditsina (USSR) 1962, v. 40, no. 9, p. 106-[111]. (Abstract available)

Kopeikina, A. A.
SEPARATION AND PRESERVATION OF THROMBOCYTE MASS. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of #Problemy Gematologii i Perelivaniya Krovi (USSR) 1963, v. 8, no. 1, p. 38-[42].
Another trans. is available from OTS $1.00 in 63-21712, JPRS-18964, 30 Apr 63, 29p.

Kout, M.
USE OF ANIMAL SERUM TO GROUP HUMAN ERYTHROCYTES BY THE ABO METHOD. 1963, 2p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of #Problemy Gematologii i Perelivaniya Krovi (USSR) 1963, v. 8, no. 2, p. 34-[36].

Kramer, A. A. and Serebrovskaya, Yu. A.
RENIN ACTIVITY IN THE KIDNEYS IN VASCULAR HYPERTENSION AND IN SYMPTOMATIC RENAL HYPERTENSION. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Terapevticheskii Arkhiv (USSR) 1962, v. 34, no. 12, p. 14ff. (Abstract available)

Kuzin, A. M. and Lebedeva, N. E.
EFFECT OF CHORIONIC GONADOTROPIN ON SOME OXIDATION PROCESSES IN ANIMAL TISSUES. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Problemy Endokrinologii i Gormonoterapii (USSR) 1963, v. 9, no. 1, p. 34ff. (Abstract available)

Lapin, B. A. and Stasilevich, Z. K.
EFFECT OF IONIZING RADIATION ON THE COURSE OF INFECTION AND STATE OF IMMUNITY IN MONKEYS WITH EXPERIMENTALLY INDUCED MEASLES. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Meditsinskaya Radiologiya (USSR) 1962, v. 7, no. 7, p. 62-[67].
Another trans. is available from OTS or SLA $4.60 in 62-33314, JPRS-15514, 1 Oct 62 [45p]. (Abstract available)

Lapina, I. A.
SUMMATION PHENOMENA IN THE LACRIMATION CENTERS. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of #Fiziologicheskii Zhurnal SSSR, 1962, v. 48, no. 11, p. 1311ff. (Abstract available)

Limanova, E. E. and Grodzenskii, D. E.
SPLITTING OF THYROTROPIC HORMONE PREPARATIONS FROM BULL AND HUMAN HYPOPHYSES BY PROTEOLYTIC ENZYMES. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Problemy Endokrinologii i Gormonoterapii (USSR) 1963, v. 9, no. 1, p. 23ff. (Abstract available)

Liozner, L. D.
REGENERATION OF LOST ORGANS. 6 Sep 63 [164p] 13refs FTD-TT-63-576.
Order from OTS $3.00 TT-63-11738

Unedited rough draft trans. of mono. Vosstanovlenie Utrachennykh Organov, Moscow, 1962, 141p. (Abstract available)

Litvinov, N. N.
LATE SKELETAL CHANGES OF DOGS AFFECTED BY RADIOACTIVE STRONTIUM. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Patologii (USSR) 1962, v. 24, no. 11, p. 23-[28].
Another trans. is available from OTS or SLA $1.10 as 63-15083, JPRS-17161, 16 Jan 63 [9p].

Lushnikov, E. F.
HISTOCHEMICAL STUDY OF EXPERIMENTALLY PRODUCED MYOCARDIAL INFARCTION. 1963, 5p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Patologii (USSR) 1962, v. 24, no. 1, p. 55-[62]. (Abstract available)

Mardashev, S. R., Lerman, M. I., and Benyumovich, M. S.
GLUTAMINE TRANSAMINASE IN BRAIN TISSUE PREPARATIONS AND IN CELLS OF A HUMAN STRAIN OF DEDIFFERENTIATED ASTROCYTOMA. 1963, 2p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Voprosy Meditsinskoi Khimii (USSR) 1962, v. 8, no. 5, p. 547-[549].

Mavrinskaya, L. F.
EVOLUTIONARY AND MORPHOLOGICAL CHANGES IN VERTEBRATE JUNCTIONS. 1963, 15p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Anatomii, Gistologii i Embriologii (USSR) 1962, v. 43, no. 12, p. 3ff. (Abstract available)

Meshalkin, E. N., Meshalkin, I. N., Kelin, E. P. Semenov, A. A., and Yagafarov, L. M.
CHANGES IN PULMONARY CIRCULATION DURING MITRAL COMMISSUROTOMY. 1963, 5p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Klinicheskaya Meditsina (USSR) 1962, v. 40, no. 10, p. 36-[42]. (Abstract available)

Mikhlin, S. Ya.
EFFECT OF EXPERIMENTAL FOLIC ACID DEFICIENCY (CAUSED BY AMINOPTERIN) ON ENZYMATIC SECRETION OF THE MAIN DIGESTIVE GLANDS. 1963, 5p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Patologii (USSR) 1962, v. 24, no. 9, p. 24ff. (Abstract available)

P'an, Yung-hsiang and others.
A DISCUSSION OF THE CLINICAL USE OF ULTRASONICS IN THE DIAGNOSIS OF INTRACRANIAL LESIONS. 24 Oct 63, 3p JPRS: 21587.
Order from OTS $2.25 in TT 63-31998 (p. 12-14)

Trans. of Chung Hua Wai K'o Tsa Chih (Chinese People's Republic) 1963 [v. 11] no. 7, p. 536.

Petrosyan, S. L. and Pereslegin, I. A.
ACUTE RADIATION SICKNESS IN NEWBORN RATS AND REMOTE CONSEQUENCES. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Meditsinskaya Radiologiya (USSR) 1962, v. 7, no. 5, p. 38-[45]. (Abstract available)

Popens, Ya., Silinsh, E., and Vitols, I.
FLUOROMETRIC DETERMINATION OF 11-HYDROXY-CORTICOSTEROIDS IN HUMAN BLOOD PLASMA. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Voprosy Meditsinskoi Khimii (USSR) 1962, v. 8, no. 6, p. 628-[633]. (Abstract available)

Scanga, Franco.
ATLAS OF ELECTRON MICROSCOPY, REV. ED. Jan 64, 368p
Order from American Elsevier Publishing Co., Inc., 52 Vanderbilt Ave., New York, 17, N. Y. $37.50

Trans. of an unidentified Italian mono., n.p., n.d. (Abstract available)

Severin, S. E. and Tseitlin, L. A.
CHARACTERISTICS OF GLYCOLYTIC OXIDOREDUCTION IN MYOCARDIAL EXTRACTS. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Voprosy Meditsinskoi Khimii (USSR) 1962, v. 8, no. 6, p. 611ff. (Abstract available)

Shalevich, M. A. and Sarankin, G. E.
ATHEROSCLEROSIS IN CHRONIC NONSPECIFIC LUNG DISEASES. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Terapevticheskii Arkhiv (USSR) 1962, v. 34, no. 9, p. 38ff. (Abstract available)

Shapiro, Yu. L.
RETICULOCYTE COUNT AND SEDIMENTATION RATE IN MAN DURING TOTAL FASTING (WITHOUT LIMITATION OF WATER) AND AFTER RESUMPTION OF EATING. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Laboratornoe Delo (USSR) 1962, v. 8, no. 8, p. 35-[40].

Shen, Shu-min.
BIOPHYSICS: A NEW BRANCH IN THE BIOLOGICAL SCIENCES. 19 Sep 63, 8p JPRS: 21150.
Order from OTS $1.50 in TT-63-31795 (p. 24-41)

Trans. from Jen Min Jih Pao (Chinese People's Republic) 1963, 6 Aug, p. 5.

Shub, G. M. and Shenderov, B. A.
CATALASE AND PEROXIDASE ACTIVITY OF TYPHOID BACTERIA SENSITIVE AND RESISTANT TO CHLORAMPHENICOL. 1963, 2p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of #Antibiotiki (USSR) 1963, v. 8, no. 1, p. 69ff. (Abstract available)

Skok, V. I.
INTRACELLULAR ELECTRIC POTENTIALS OF SYMPATHETIC GANGLION NEURONS. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Fiziologichnyi Zhurnal (USSR) 1962, v. 8, no. 1, p. 86-[92]. (Abstract available)

Sreseli, M. A. and Bol'shakov, O. P.
SIGNIFICANCE OF CAVERNOUS SINUS IN REGULATION OF CEREBRAL CIRCULATION. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Anatomii, Gistologii i Embryiologii (USSR) 1962, v. 43, no. 10, p. 13ff.

Stepanyan, E. P. and Merkur'eva, R. V.
ELECTROPHORETIC AND CHROMATOGRAPHIC INVESTIGATION OF SERUM GLYCOPROTEINS IN PATIENTS WITH MITRAL STENOSIS. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Terapevticheskii Arkhiv (USSR) 1962, v. 34, no. 10, p. 84ff.

Storozhuk, V. M.
EVOKED POTENTIALS AT VARIOUS LEVELS OF THE MOTOR ZONE OF THE CAT CORTEX AND THEIR RELATION TO THE ELECTROENCEPHALOGRAM. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Fiziologichnyi Zhurnal (USSR) 1962, v. 8, no. 1, p. 100-[106]. (Abstract available)

Tikhonov, K. B.
HYPOTENSION AND VASOCONSTRICTION IN ACUTE RADIATION SICKNESS. 1963, 6p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Meditsinskaya Radiologiya (USSR) 1962, v. 7, no. 6, p. 58-[68].
Another trans. is available from OTS or SLA $4.60 in TT-62-32862, JPRS-15173, 7 Sep 62 [50p].

Timakov, V. D.
NUCLEIC ACIDS AND MICROORGANISM MUTABILITY. Sep 63, 6p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1962, v. 17, no. 12, p. 38-[49].

Vlasova, E. V. and Solov'eva, N. I.
SIMPLE METHOD FOR PRODUCTION OF A HIGHLY ACTIVE COLLAGENASE PREPARATION. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Voprosy Meditsinskoi Khimii (USSR) 1962, v. 8, no. 1, p. 42 iff. (Abstract available)

Volkov, N. F.
COBALT, MANGANESE AND ZINC CONTENT IN THE BLOOD OF ATHEROSCLEROSIS PATIENTS. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Terapevticheskii Arkhiv (USSR) 1962, v. 34, no. 12, p. 52ff. (Abstract available)

Votchal, B. E., Modestov, V. K., and Akopyan, M. A.
RADIOACTIVE XENON METHOD FOR DETERMINATION OF RESIDUAL VOLUME IN THE LUNGS. 1963, 2p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Meditsinskaya Radiologiya (USSR) 1962, v. 7, no. 5, p. 3-[6]. (Abstract available)

Vyasov, O. E., Volkova, L. S., Titova, I. I., and Murashova, A. I.
HUMERAL RELATIONSHIP BETWEEN MOTHER AND FETUS IN CLINIC AND EXPERIMENT. 1963, 5p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1962, v. 17, no. 11, p. 23-[31].

Yakovleva, L. A. and Novikova, M. I.
LATE DISTURBANCES IN THE REPRODUCTIVE FUNCTIONS OF THE MONKEY FOLLOWING ACUTE RADIATION SICKNESS. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Meditsinskaya Radiologiya (USSR) 1962, v. 7, no. 5, p. 31-[37].
Another trans. is available from OTS or SLA $2.60 in 62-32455, JPRS-14883, 17 Aug 62 [22p].

Zaks, M. G. and Moskalenko, Yu. E.
ELECTRICAL CHARACTERISTICS OF THE MAMMARY GLAND OF WOMEN IN THE FIRST DAYS OF LACTATION. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of #Fiziologicheskii Zhurnal SSSR 1962, v. 48, no. 7, p. 850ff.

Zalesskii, G. G., Vorob'eva, N. N., Yavorovskaya, V. E., Shurin, S. P., and Balandina, A. M.
FILTRABLE VIRUSES ISOLATED FROM PATIENTS WITH RHEUMATIC FEVER. 1963, 8p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1962, v. 17, no. 9, p. 85-[93]. (Abstract available)

Zhdanov, D. A. and Sapin, M. R.
FUNCTIONAL VIEW OF INTRAORGANIC BLOOD VESSELS IN THE HUMAN HYPOPHYSIS. 1963, 7p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Arkhiv Anatomii, Gistologii i Embriologii (USSR) 1962, v. 43, no. 10, p. 3ff.

Zhdanov, V. M. and Ritova, V. V.
SEASONAL FLUCTUATIONS IN REACTIVITY TO LIVE INFLUENZA VACCINES. 1963, 3p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1962, v. 17, no. 2, p. 3-[9].
Another trans. is available from OTS $2.25 in TT-63-21241, JPRS-17930, 4 Mar 63 [101p]. Abstract available)

Zherebchenko, P. G., Krasnykh, I. G., Kuznets, E. I., Zuvorov, N. N., and Shashkov, V. S.
PROTECTIVE EFFECT OF COMBINATIONS OF AMINES AGAINST RADIATION. 1963, 4p
Order from FASEB in Federation Proceedings, 1963, v. 22, no. 5, pt. 2, $2.00

Trans. of Meditsinskaya Radiologiya (USSR) 1962, v. 7, no. 3, p. 67-[72]. (Abstract available)

Anatomy and Physiology

NERVISM. [1963] [2p] 2refs
Order from OTS, SLA or ETC $1.10 TT-63-18527

Trans. from Bol'shaya Sovetskaya Entsiklopedia (USSR) 2d ed, 1954, v. 29, p. 470. (Abstract available)

Dulenko, V. P. and Sokolov, E. N.
A STUDY OF THE REACTION OF THE VISUAL ANALYSOR TO LIGHT FLASHES OF VARYING FREQUENCY. [1963] [7]p.
Order from OTS, SLA, or ETC $1.10 TT-63-19456

Trans. of Akademiya Pedagogicheskikh Nauk RSFSR. Doklady, 1961, no. 3, p. 105-110.

Il'in, I. V., Persyaninov, L. S., and Savel'eva, G. M.
FETAL ELECTROCARDIOGRAPHY IN THE OBSTETRICAL CLINIC. [1963] [14p] 11refs FASEB Manuscript no. S 93-3.
Order from OTS, SLA or ETC $1.60 TT-63-23842

Trans. of Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1962, v. 17, no. 11, p. 36-40. (Abstract available)

Kedrov, A. A. and Naumenko, A. I.
PROBLEMS IN THE PHYSIOLOGY OF INTRACRANIAL BLOOD CIRCULATION AND THEIR CLINICAL IMPLICATIONS. Oct 63, 136p 175refs NASA Technical Trans. F-156.
Order from OTS $2.75 TT-63-11733

Trans. of mono. Voprosy Fiziologii Vnutricherepnogo Krovoobrashcheniya s Klinisheskim Ikh Osveshcheniem, Leningrad, 1954 [134p]. (Abstract available)

Kitaev-Smyk, L.
IN THE AIR HOVERS A CAT (WEIGHTLESSNESS EXPERIMENTS). 11 June 63 [9]p. FTD-TT-63-618.
Order from OTS, SLA, or ETC $1.10 TT-63-23643

Unedited rough draft trans. of Nauka i Zhizn' (USSR) 1963 [v. 30] no. 4, p. 35-39. (Abstract available)

Kondrashkina, K. I. and Dubnikova, A. F.
OXYGEN CONSUMPTION BY SUSLIK FLEAS AS A PHYSIOLOGICAL TEST OF THEIR VITALITY.
16 Oct 63, 7p 15refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 71-77)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Mchedlishvili, G. I. and Ormotsadze, L. G.
INVESTIGATIONS OF THE REFLEX ACTION OF THE SINUSES ON THE REGIONAL CEREBRAL ARTERIES (Issledovaniya Reflektornykh Vliyanii s Venoznykh Sinusov na Regionarnye Arterii Mozga).
6 May 63 [8]p. 18 refs. NIH no. 5-4-63.
Order from OTS, SLA or ETC $1.10 TT-63-19685

Trans. of #Byulli[eten'] Eksp[erimental'noi] Biol[ogii i] Med[itsiny] (USSR) 1962, v. 53 [no. 2] p. 9-13. (Abstract available)

Parin, V. V. and Meerson, F. Z.
MYOCARDIAL TENSION AND THE FUNCTIONAL CARDIAC RESERVE UNDER CONDITIONS OF CARDIAC RESERVE UNDER CONDITIONS OF CARDIAC HYPERFUNCTION AND INSUFFICIENCY. 21 Oct 63, 19p 16refs JPRS: 21526.
Order from OTS $2.75 in TT-63-31975 (p. 27-45)

Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8. (Abstract available)

Sokolov, E. N. and Dulenko, V. P.
A STUDY OF THE REACTION OF THE VISUAL ANALYSOR TO SMOOTH CHANGES IN THE INTENSITY OF LIGHT FLASHES. [1963] [6]p.
Order from OTS, SLA, or ETC $1.10 TT-63-19453

Trans. of Akademiya Pedagogicheskikh Nauk RSFSR. Doklady, 1961, no. 3, p. 101-104.

Biochemistry

Binenfeld, Zlatko.
THE EFFECT OF SKF-525 A (DIETHYLAMINOETHYL-2:2--DIPHENYLVALERATE HYDROCHLORIDE) ON THE ENZYMATIC DEGRADATION OF SOME ORGANOPHOSPHORUS COMPOUNDS IN RABBIT PLASMA, III. 1963, 6p 100refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 109-114)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasik (Yugoslavia) 1962, v. 27, no. 2/3, p. 163-166.

Binenfeld, Z[latko].
ENZYMATIC DEGRADATION OF SOME ORGANO-PHOSPHORUS COMPOUNDS WHICH CONTAIN p-NITRO-PHENYL RADICAL, IN THE PLASMA AND TISSUES OF VARIOUS ANIMAL SPECIES, II. 1963, 6p 4refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 103-108)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 157-161.

Gurinovich, G. P. and Strelkova, T. I.
STUDY OF THE ASSOCIATION OF SOME PORPHYRIN MOLECULES. [1963] [11]p. 25 refs
Order from OTS, SLA, or ETC $1.60 TT- 63-18602

Trans. of #Biofizika (USSR) 1963, v. 8 [no. 2] p. 172-180. (Abstract available)

Karapetyan, N. V., Litvin, F. F., and Krasnovskii, A. A.
LUMINESCENCE CHANGES IN DIFFERENTIAL SPECTRA OF PHOTOSYNTHESIZING ORGANISMS. [1963] [4]p. 14 refs.
Order from OTS, SLA, or ETC $1.10 TT-63-18606

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1963, v. 149 [no. 6] p. 1428-1431. (Abstract available)

Kolesnikov, P. A.
THE BIOCHEMICAL ASPECTS OF RESPIRATION AND PHOTOSYNTHESIS. [1963] [9]p 20refs
Order from OTS, SLA, or ETC $1.10 TT-63-19283

Trans. of mono. Problemy Fotosinteza: Doklady na Vsesoyuznoi Konf[erentsii po Fotosintezu (no. 2) Moscow, 21-26 Yan 57 G (Problems of Photosynthesis: Reports at the All-Union Conference on Photosynthesis (no. 2) Moscow, 21-26 Jan 57)] Moscow, 1959, p. 346-352.

Komissarov, G. G., Gavrilova, V. A. and others.
DEPENDENCE OF THE PHOTOSENSITIZING ACTIVITY OF CHLOROPHYLL ABSORBED ON CAPRON ON THE SURFACE CONCENTRATION. [1963] [3]p. 7 refs.
Order from OTS, SLA, or ETC $1.10 TT-63-18607

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1963, v. 150 [no. 1] p. 174-175. (Abstract available)

Krasnovskii, A. A. and Pakshina, E. V.
COMPARATIVE INVESTIGATION OF THE FORMULATION OF PHEOPHYTINES FROM CHLOROPHYLL AND ITS ANALOGUES IN DARKNESS AND UPON ILLUMINATION. 9 Sep 63 [10p] 7refs FTD-TT-63-866.
Order from OTS $0.50 TT-63-11745

Unedited rough draft trans. of Akademiya Nauk SSSR. Doklady, 1963, v. 148, no. 4, p. 935-938.
Another trans. is available from OTS or SLA $1.10 as 63-18600 [1963] [5p].

Liberman, L. L., Dmitrenko, L. V., and Yaroshevskii, Yu. A.
ISOLATION OF INSULIN-LIKE COMPOUNDS FROM BLOOD PLASMA AND URINE ON ION-EXCHANGE RESINS. [1963] 6p.
Order from ATS $9.85 ATS-50Q71R

Trans. of Vopr[osy] Med[itsinskoi] Khim[ii] (USSR) 1962, v. 8, no. 4, p. 420-423.
Another trans. is available from OTS or SLA $1.10 as 63-10209 [1962] 4p.

Mihailovic, Mihailo Lj., Antic, Mihailo, and Hadzijev, Dimitrije.
CHEMICAL INVESTIGATION OF WHEAT. I. DYNAMICS OF VARIOUS FORMS OF PHOSPHORUS IN WHEAT DURING ITS ONTOGENESIS. ACCUMULATION FORMS OF PHOSPHORUS IN RIPE WHEAT GRAIN. I. ORTHO-PHOSPHATE AND TOTAL PHOSPHORUS. 1963, 18p 35refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 63-80)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 117-131.

Mihailovic, Mihailo Lj., Antic, Mihailo, and Hadzijev, Dimitrije.
CHEMICAL INVESTIGATION OF WHEAT. 2. DYNAMICS OF VARIOUS FORMS OF PHOSPHORUS IN WHEAT DURING ITS ONTOGENESIS. ACCUMULATION FORMS OF PHOSPHORUS IN RIPE WHEAT GRAIN. II. PHYTATE PHOSPHORUS. 1963, 21p 40refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 81-101)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 135-152.

Pinyazhko, I.-R. M.
A SPECTROPHOTOMETRIC STUDY OF THE STABILITY OF AQUEOUS SOLUTIONS OF TETRACYCLINES. [1963] 6p.
Order from ATS $7.75 ATS-55Q71R

Trans. of Antibiotiki (USSR) 1958, v. 3, no. 2, p. 94-99.
Another trans. is available in French from OTS or ETC $1.85 as 62-26187, FR-3173, 13p.

Stepanyan, E. P. and Geselevich, E. L.
SOME BIOCHEMICAL CHANGES OF BLOOD IN EXTRACORPOREAL CIRCULATION. 21 Oct 63, 8p 13refs JPRS: 21526.
Order from OTS $2.75 in TT-63-31975 (p. 60-67)

Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8. (Abstract available)

Tabakov, P. K.
THE USE OF ARTIFICIAL AKR-7 RESIN FOR MAKING CONWAY DIFFUSION VESSELS. 16 Oct 63, 3p 5refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 308-310)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p.

Vinogradov, A. P., Kutyurin, V. M. and others.
OXYGEN OF PHOTOSYNTHESIS AND PHOSPHATE. [1963] [4]p. 13 refs.
Order from OTS, SLA, or ETC $1.10 TT-63-18608

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1963, v. 150 [no. 2] p. 411-413. (Abstract available)

Volkenshtein, M. V.
SOME CONSEQUENCES OF THE GENETIC CODE (Nekotorye Sledstviya Geneticheskogo Koda). 2 July 63, 6p. 10 refs. Trans. A-1393.
Available from OTS, SLA or ETC $1.10 TT-63-23124

Trans. of #Biofizika (USSR) 1963, v. 8, no. 3, p. 394-395.

Zikel', V. and Demirchuglyan, G. G.
THE SIGNIFICANCE OF THE SULFHYDRYL GROUPS IN THE ORIGIN OF THE ELECTRICAL REACTION OF THE ISOLATED HUMAN AND ANIMAL RETINA (O Znachenii Sul'fidgril'nykh Grupp v Proiskhozhdenii Elektricheskoi Reaktsii Izolirovannoi Setchatki Zhivotnykh i Cheloveka) tr. by Tatiana Boldyreff. 9 Jan 63, 6p (Eng. refs omitted) 3refs.
Order from OTS, SLA, or ETC $1.10 TT-63-23411

Trans. of reprint of #Biofizika (USSR) 1962, v. 7, no. 2, p. 225-226.

Botany

Baslavskaya, S. S.
INORGANIC NUTRIENTS AS A FACTOR IN INCREASING THE INTENSITY AND PRODUCTIVITY OF PHOTOSYNTHESIS OF ALGAE (Mineral'noe Pitanie kak Faktor Povysheniya Intensivnosti i Produktivnosti Fotosinteza Vodoroslei) tr. by M. Slessers. 1963 [17]p. 21refs. NOO Trans-203.
Order from OTS, SLA, or ETC $1.60 TT-63-23801

Trans. of mono. Pervichanaya Produktsiya Morei i Vnutrennikh Vod, Minsk, 1961, p. 319-327. (Abstract available)

Goryshina, T. K.
STUDIES OF THE WATER AND THERMAL REGIME OF LEAVES IN PLANTS OF DIFFERENT ECOLOGICAL TYPES UNDER NATURAL CONDITIONS (Nekotorye Dannye o Vodnom i Temperaturnom Rezhime List'ev Rastenii Raznykh Ekologicheskikh Tipov v Prirodnykh Usloviyakh) tr. by B. Ribush. [1963] [18]p. (foreign text included) 7 refs. [CSIRO] Trans. no. 6202.
Order from OTS, SLA, or ETC $1.60 TT-63-19971

Trans. of Leningrad U. Vestnik (USSR) 1960 [v. 15] no. 3 [Seriya Biologii no. 1] p. 90-98. (Abstract available)

Katz, N. Ya.
CONTRIBUTION TO THE STUDY OF FOREST PHYTOCOENOSES (Na Puti k Poznaniyu Struktury Lesnykh Fitotsenozov) tr. by V. A. Solodukhin. [1962] [36]p. (foreign text included) 35 refs. [CSIRO] Trans. no. 6133.
Order from OTS, SLA or ETC $3.60 TT-63-23409

Trans. of Botanicheskii Zhurnal (USSR) 1943, v. 28, no. 4, p. 154-170.

Lanskaya, L. A. and Pshenina, T. I.
PROTEIN, FAT, CARBOHYDRATE, AND ASH CONTENT OF SOME MASS BLACK SEA PLANKTONIC ALGAE GROWN IN CULTURES. 26 Aug 63, 15p 28refs. JPRS: 20796.
Order from OTS $0.50 TT-63-31615

Trans. of [Akademiya Nauk SSSR]. Sevastopol'skaya Biologicheskaya Stantsiya. Trudy, 1961, v. 14, p. 292-302. (Abstract available)

Petrovic, Dragoljub S.
FOREIGN VARIETIES OF FOREST TREES (EXOTICS) IN SERBIA (Strane Vrste Drveca (Egzoti) u Srbiji) tr. by David Tornquist. 1963 [168p] 11refs PL-480 Agr.
Order from OTS $1.75 TT-60-21630

Trans. of Srpska Akademija Nauka. Posebna Izdanja (Yugoslavia) 1951, v. 182, Institut za Fiziologiju Razvica, Genetiku i Selekciju, v. 1, 180p.

Voskresenskaya, N. P.
THE ACTION OF SHORTWAVE RADIATION ON THE ABOSRPTION OF OXYGEN BY THE LEAVES OF PLANTS. [1963] [13]p 31refs
Order from OTS, SLA, or ETC $1.60 TT-63-19454

Trans. of mono. Problemy Fotosinteza: Doklady na Vsesoyuznoi Konf[erentsii po Fotosintezu, Moskva, 21-26 Yan 57 G. (Problems of Photosynthesis: Reports at the All-Union Conference on Photosynthesis (no. 2) Moscow, 21-26 Jan 57)] Moscow, 1959, p. 335-345. (Abstract available)

Medical Specialties and Equipment

NEW HOSPITALS BUILT IN TIBET. 19 Sep 63, 3p JPRS: 21150.
Order from OTS $1.50 in TT-63-31795 (p. 21-23)

Trans. from Kuang Ming Jih Pao (Chinese People's Republic) 1963, 30 Jul, p. 1

Bulychev, V. V.
THE ALL-RUSSIAN SCIENTIFIC-PRACTICAL CONFERENCE OF MEDICAL INSTITUTES ON PHYSICAL EDUCATION, MEDICAL SUPERVISION, AND THERAPEUTIC PHYSICAL CULTURE (NO. 5) [GOR'KIY, 1963]. 21 Oct 63, 4p JPRS: 21533.
Order from OTS $0.50 TT-63-31980

Trans. of Teoriya i Praktika Fizicheskoi Kul'tury (USSR) 1963 [v. 26] no. 5, p. 77-78.

Ivanov, N. R., Lokhov, M. G., and Igonina, N. B.
VACCINATION OF GUINEA PIGS AND RABBITS WITH DRY LIVING BRUCELLOSIS VACCINE BY MEANS OF THE N. R. IVANOV APPARATUS. 16 Oct 63, 6p 7refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 187-192)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Pershin, G. N.
THE ROLE OF PHARMACOLOGY IN THE DEVELOPMENT OF MEDICAL SCIENCE. 18 Oct 63, 5p JPRS: 21512.
Order from OTS $0.50 TT-63-31968

Trans. of #Farmakologiya i Toksikologiya (USSR) 1963, v. 26, no. 4, p. 403-405.

Microbiology

Adamov, A. K., Mosolova, O. N., Gol'dfarb, L. M., and Kuznetsova, N. I.
THE USE OF POLYCARBOHYDRATE MEDIUM FOR THE STUDY OF MATERIAL FOR PRESENCE OF THE CHOLERA VIBRIO. 16 Oct 63, 4p 7refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 279-282)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Akimovich, V. V., Goncharova, N. S., Samoilova, L. V., and Zemtsova, I. N.
QUANTITATIVE ANALYSIS OF ANTIGENS OF ANTHRAX BACILLI BY THE METHOD OF SPECIFIC DIFFUSION IN AGAR. 16 Oct 63, 9p 31refs. JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 192-200)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Anokhina, S. V., Bazunova, L. P., and Tabakov, P. K.
RAPID IDENTIFICATION OF THE GLANDERS AND MELIOIDOSIS PATHOGENS BY MEANS OF FLUORESCENT SERA. 16 Oct 63, 7p 5refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 302-308)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Bakhrakh, E. E.
THE EFFECT OF CERTAIN CULTIVATION CONDITIONS ON THE VIRULENCE OF THE PLAGUE MICROBE (REVIEW OF ABSTRACTS). 16 Oct 63, 8p 11refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 311-318)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p.

Bakhrakh, E. E. and Egorova, V. D.
THE EFFECT OF SOME CULTIVATION CONDITIONS ON THE SYNTHESIS OF POLYSACCARIDE BY THE PLAGUE MICROBE. 16 Oct 63, 7p 11refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 206-212)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Denisova, E. P. and Egorova, V. D.
CHEMICAL CHARACTERIZATION OF THE THERMOSTABLE ANTIGENS OF THE PLAGUE MICROBE. 16 Oct 63, 4p JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 212-215)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Drozdovskaya, F. K.
THE RATES OF OXYGEN CONSUMPTION AND GLUCOSE OXIDATION BY PLAGUE AND RODENT PSEUDOTUBERCULOSIS MICROBES. 16 Oct 63, 5p 5refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 216-220)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Drozdovskaya, F. K., Murav'eva, N. K., and Krainova, A. N.
THE EFFECT OF GLUCOSE ON THE GROWTH OF THE PLAGUE MICROBE UNDER AERATION CONDITIONS. 16 Oct 63, 11p 12refs JPRS: 21475
Order from OTS $5.00 in TT-63-31949 (p. 229-239)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Dudchenko, V. G.
MICROBIOLOGICAL INVESTIGATION OF SOME PEATS OF THE UKRAINIAN SSR. 28 Oct 63, 8p 8refs JPRS: 21623.
Order from OTS $0.50 TT-63-41019

Trans. of Mikrobiologichnyi Zhurnal (USSR) 1963, v. 25, no. 4, p. 34-39. (Abstract available)

Dzhaparidze, M. N. and Sidorova, N. K.
CHANGES IN THE LACTIC ACID CONTENT OF WHITE MICE WITH PLAGUE. 16 Oct 63, 6p 12refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 201-206)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Krainova, A. N. and Liskina, I. V.
THE PROBLEM OF CONDITIONS AFFECTING THE DETERMINATION OF THE NUMBER OF LIVING MICROBES IN DRY 1-17 PLAGUE VACCINE. 16 Oct 63, 5p 8refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 239-243)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Lalazarova, I. G.
THE EFFECT OF TERRAMYCIN ON THE DIFFUSION PROPERTIES OF THE PLAGUE MICROBE. 16 Oct 63, 7p 10refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 167-173)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Murav'eva, N. K., Krainova, A. N., and Maslova, O. P.
THE USE OF CASEIN MEDIA IN VACCINE PRODUCTION. 16 Oct 63, 6p 6refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 244-249)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Naumshina, M. S. and Guseva, L. P.
THE EFFECT OF THE FREEZE-DRYING PROCESS ON THE CHOLERA VIBRIO. 16 Oct 63, 6p 6refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 149-154)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Petrova, L. S. and Larina, V. S.
ACCELERATED METHOD FOR THE DETECTION AND IDENTIFICATION OF ANTHRAX BACILLI IN THE SOIL. 16 Oct 63, 7p 14refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 288-294)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Tinker, A. I.
THE EFFECT OF THE TEMPERATURE OF PRELIMINARY FREEZING ON THE NUMBER OF VIABLE MICROBES IN DRY EV PLAGUE VACCINE. 16 Oct 63, 9p 12refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 221-229)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Tumanskii, V. M., Bakhrakh, E. E., Sokolova, N. M., Yurgina, Z. A., and Nikitina, G. P.
STUDY OF THE PROPERTIES OF THE PLAGUE MICROBE CULTURE KEPT ON DRY NUTRIENT MEDIUM. 16 Oct 63, 3p 2refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 277-279)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Pathology

HERALD OF THE ACADEMY OF MEDICAL SCIENCES USSR, 1963, VOL. 18, NO. 8. 21 Oct 63, 141p JPRS: 21526.
Order from OTS $2.75 TT-63-31975

Trans. of Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8, p. 1-96.

MEDICAL JOURNAL, 1962, VOL. 84, NO. 7, tr. ed. by Elizabeth Tornquist. 1963, 69p 121refs PL-480 HEW.
Order from OTS $0.75 TT-62-11763/7

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 7, p. 637-701.

MEDICAL JOURNAL, 1962, VOL. 84, NO. 8, tr. ed. by Irene Mirkovic. 1963, 50p 127refs PL-480 HEW.
Order from OTS $0.50 TT-62-11763/8

Trans. of Lijecnicki Vjesnik (Yuroslavia) 1962, v. 84, no. 8, p. 765-818.

SHANGHAI HSIN HUA HOSPITAL HAS SAVED THE LIFE OF A CHILD WITH SEVERE CONCUSSION OF BRAIN. 24 Oct 63, 3p JPRS: 21587.
Order from OTS $2.25 in TT-63-31998 (p. 22-24)

Trans. of Chung Kuo Hsin Wen (Chinese People's Republic) 1963, 28 Aug, p. 6. (Abstract available)

Agababyan, M. M.
STUDYING THE DISTRIBUTION OF ANTHRAX VACCINES IN AN ORGANISM BY USING RADIOACTIVE INIDCATORS. 13 May 63 [14]p ABL Trans. no. 799; JPRS: R-3096-D.
Order from OTS, SLA, or ETC $1.60 TT-63-23064

Trans. of Akademiya Nauk Armyanskoi SSR [Erevan]. Izvestiya. [Biologicheskie Nauki, 1959, v. 12, no. 12, p. 63-71.

Akimovich, V. V., Goncharova, N. S., and Zemtsova, I. N.
SPECIFIC DIFFUSION IN GEL TEST AS A METHOD OF IDENTIFICATION OF ANTHRAX BACILLI AND DETECTION OF ANTHRAX ANTIGENS IN THE ORGANS OF LABORATORY ANIMALS. 16 Oct 63, 8p JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 294-301)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Anan'in, V. V. and Karaseva, E. V.
THE LEPTOSPIROSES. 1963, 19p 36refs PL-480 HEW.
Order from OTS $2.00 in TT-63-11069 (p. 108-126)

Trans. from mono. Prirodnoochagovye Bolezni Cheloveka, Moscow, 1960.

Beritic, T.
DROWNING. 1963, 9p 21refs PL-480 HEW.
Order from OTS $0.50 in TT-62-11763/8 (p. 33-41)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 8, p. 797-805. (Abstract available)

Beritic, T.
PARENTERAL FLUIDS FOR WATER AND SALT BALANCE AS EMERGENCY TREATMENT BY PRACTICING PHYSICIAN. 1963, 2p 5refs PL-480 HEW.
Order from OTS $0.75 in TT-62-11763/7 (p. 63-64)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 7, p. 697-698.

Beritic, T. and Markicevic, A.
THE TERATOGENIC EFFECT OF GLUTARIMIDE DERIVATIVES. 1963, 5p 18refs PL-480 HEW.
Order from OTS $0.75 in TT-62-11763/7 (p. 65-69)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 7, p. 698-701.

Chekurin, V. P. and Zhirnov, V. D.
SOCIAL PROBLEMS OF MEDICINE. 21 Oct 63, 9p JPRS: 21526.
Order from OTS $2.75 in TT-63-31975 (p. 128-136)

Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8.

Chibrikova, E. V., Bazunova, L. P., Tabakov, P. K., Shurkina, I. I., and Vel'ner, E. I.
OBTAINING FLUORESCENT SERA AND DETERMINATION OF THE POSSIBILITY OF USING THEM FOR RAPID IDENTIFICATION OF PLAGUE AND CHOLERA PATHOGENS. 16 Oct 63, 8p 10refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 250-257)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Chibrikova, E. V., Kuznetsova, N. I., Tabakov, P. K., and Vel'ner, E. I.
RAPID IDENTIFICATION OF THE PLAGUE MICROBE IN SMEARS OF ANIMAL ORGANS BY MEANS OF FLUORESCENT ANTIPLAGUE SERUM. 16 Oct 63, 9p 5refs JPRS: 21475
Order from OTS $5.00 in TT-63-31949 (p. 257-265)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Dekaris, M. and Rajhvajn, B.
SEPTIC ABORTION DUE TO CL. PERFRINGENS. 1963, 10p 11refs PL-480 HEW.
Order from OTS $0.50 in TT-62-11763/8 (p. 16-25)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 8, p. 781-789

Dekaris, M., Krznar, B., and Kulcar, Z.
THE INCIDENCE OF CANCER OF THE UTERUS IN THE PEOPLE'S REPUBLIC OF CROATIA. 1963, 7p 7refs PL-480 HEW.
Order from OTS $0.50 in TT-62-11763/8 (p. 1-7)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 8, p. 765-771.

Doborkhotova, N. D. and Lobanov, V. N.
PATHOLOGICAL CHANGES IN THE ORGANS OF DWARF SUSLIKS INFECTED WITH PLAGUE IN A STATE OF HIBERNATION. 16 Oct 63, 7p 5refs. JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 124-130)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Dreizin, R. S., Porubionovskaya, N. M., and Zolotarskaya, E. E.
CUTANEOUS ALLERGIC REACTION TO ADENOVIRUSES, tr. by W. Himel. 19 July 63, 3p.
NIH no. 7-38-63.
Order from OTS, SLA, or ETC $1.10 TT-63-23552

Trans. of #Voprosy Virusologii (USSR) 1963 [v. 8] no. 2, p. 232-233. (Abstract available)

Eremitskii, N. Ya. and Eremitskaya, N. A.
THE PROBLEM OF VARIATION OF THE PLAGUE MICROBE IN THE COURSE OF AN EPIZOOTIC. 16 Oct 63, 7p 14refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 22-28)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Falisevac, J. and Mihaljevic, F.
ACUTE INFECTIOUS DISEASES AS THE PROBLEM OF THE GENERAL PRACTITIONER. 1963, 12p 15refs PL-480 HEW.
Order from OTS $0.75 in TT-62-11763/7 (p. 1-12)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 7, p. 637-648.

Fenyuk, B. K., Osolinker, B. E., Lalazarov, A. A., Gershkovich, N. L., and Ziskind, L. Yu.
PLAGUE EPIZOOTICS AMONG HOUSE MICE IN THE LOWER REACHES OF THE URAL RIVER IN 1958-59. 16 Oct 63, 20p 10refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 2-21)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p.
(Abstract available)

Flegontova, A. A. and Malafeeva, L. S.
ACTIVITY OF PLAGUE TRANSMISSION BY CERTAIN SPECIES OF FLEAS. 16 Oct 63, 11p 15refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 29-39)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p.
(Abstract available)

Gol'dburt, N. N.
HISTOLOGICALLY SPECIFIC SUBCUTANEOUS INFILTRATES FOLLOWING NIISI POLYVACCINE ADMINISTRATION (AUTHOR'S ABSTRACT) (Gistologicheski Spetsificheskie Podkozhnye Infil'traty Posle Vvedeniya Polivaktsiny NIISI (Avtoreferat)). 2 July 63, 3p. Trans. V-1835.
Order from OTS, SLA, or ETC $1.10 TT-63-23123

Trans. of Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii (USSR) 1963, v. 40, no. 3, p. 120.

Guillerm, R., Badré, R., and Vignon, B.
INHIBITORY EFFECTS OF TOBACCO SMOKE ON THE CILIARY ACTIVITY OF THE RESPIRATORY EPITHELIUM AND THE NATURE OF THE COMPOUNDS RESPONSIBLE (Effets Inhibiteurs de la Fumée de Tabac sur l'Activité Ciliaire de l'Épithélium Respiratoire et Nature des Conposants Responsables). [1963] [19p]
Available on loan from SLA TT- 63-20125

Trans. of Académie Nationale de Médecine [Paris. Bulletin (France) 1961, ser. 3] v. 145 [no. 20/21] p. 416-423.
Another trans. is available from K-H $18.75 as K-H-11433-a [1962] 15p.

Hsieh, Ta-yeh, Wu, Meng-ch'ao, Wang, I-ling, and Chang, Chih-i.
SOME OBSERVATIONS OF THE TREATMENT OF LATE STAGE LIVER CANCER BY INTRAVASCULAR PERFUSION OF THE LIVER WITH ANTICANCER CHEMICALS. 24 Oct 63, 5p 5refs JPRS: 21587.
Order from OTS $2.25 in TT-63-31998 (p. 1-5)

Trans. of Chung Hua Wai K'o Tsa Chih (Chinese People's Republic) 1963 [v. 11] no. 7, p. 514-515.
(Abstract available)

Kerbikov, O. V.
RESULTS OF DISCUSSION OF THE PROBLEM OF CAUSALITY IN MEDICINE. 21 Oct 63, 5p JPRS: 21526.
Order from OTS $2.75 in TT-63-31975 (p. 137-141)

Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8.

Kravchenko, A. T., Yakovlev, A. I. and others.
A CHANGE OF THE PROPERTIES OF THE Q-FEVER CAUSATIVE AGENT. I. BIOLOGICAL PROPERTIES OF VARIANTS D AND B-D-1 OF THE GRIT STRAIN OF RICKETTSIA BURNETII, tr. by Charles T. Ostertag. Feb 63 [4]p ABL Trans. no. 747; AD-404 792
Order from OTS, SLA, or ETC $1.10 TT-63-23090

Trans. of #[Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii] (USSR) 1963, no. 1, p. 152.

Kulcar, Z.
THE WORLD HEALTH ORGANIZATION AND MENTAL HEALTH. 1963, 4p 19refs PL-480 HEW.
Order from OTS $0.50 in TT-62-11763/8 (p. 47-50)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 8, p. 816-818.

Kuraev, I. I.
EARLY DETECTION OF THE PLAGUE MICROBE BY THE METHOD OF INFECTING LABORATORY ANIMALS. 16 Oct 63, 6p 8refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 265-270)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Lavrovskii, A. A.
CHANGES IN THE LANDSCAPES AND REASONS FOR THE SHIFT IN THE BOUNDARIES OF THE PLAGUE EPIZOOTIC IN THE NORTHEAST AND EAST CASPIAN REGIONS. 16 Oct 63, 19p 27refs JPRS: 21475.
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Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p.
(Abstract available)

Lokhov, M. G.
THE PROBLEM OF AN ACCELERATED AGGLUTININ TEST BY THE CENTRIFUGATION METHOD IN BRUCELLOSIS. 16 Oct 63, 7p 8refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 282-288)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Lokhov, M. G., Shkarlat, G. Ya, Tseluykin, A. V., Kovalev, N. I., and Teryaeva, T. V.
MATERIAL ON PRODUCTION OF SIDE EFFECTS AND IMMUNOLOGICAL EFFECTIVENESS WHEN THE VACCINE OF THE KASHINTSEV BIOLOGICALS PLANT IS USED FOR VACCINATION AND REVACCINATION AGAINST BRUCELLOSIS. 16 Oct 63, 8p 5refs JPRS: 21475.
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Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Markicevic, A.
EMERGENCY TREATMENT OF DROWNING. 1963, 2p 13refs PL-480 HEW.
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Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 8, p. 815-816.

Navrotskii, V. K., Tarnopol'skaya, M. M., Kongelari, S. S., and Nikolaeva, N. M.
THE STATUS OF THE GENERAL IMMUNOBIOLOGICAL REACTIVITY OF THE ORGANISM AND THE MORBIDITY RATE OF FOUNDRY WORKERS.
21 Oct 63, 14p 17refs JPRS: 21526.
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Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8. (Abstract available)

Nikolaev, N. I. and others.
PARTICULARLY DANGEROUS INFECTIOUS DISEASES AND INFECTIOUS DISEASES WITH NATURAL FOCALIZATION. 16 Oct 63, 339p 470refs JPRS: 21475.
Order from OTS $5.00 TT-63-31949

Trans. of mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p.

Novokreshchenova, N. S.
MATERIAL ON THE ECOLOGY OF THREE SPECIES OF GREAT SAND RAT FLEAS FROM A COMPARATIVE ASPECT. 16 Oct 63, 12p 11refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 59-70)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

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TULAREMIA. 1963, 37p 19refs PL-480 HEW.
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Trans. from mono. Prirodnoochagovye Bolezni Cheloveka, Moscow, 1960.

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Trans. from mono. Prirodnoochagovye Bolezni Cheloveka, Moscow, 1960.

Pavlovskii, E. N.
TICK-BORNE RELAPSING FEVER. 1963, 28p 67refs PL-480 HEW.
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Trans. from mono. Prirodnoochagovye Bolezni Cheloveka, Moscow, 1960.

Pavlovskii, E. N., ed.
NATURAL FOCI OF HUMAN INFECTIONS, tr. by H. Brachyahu. 1963, 201p 370refs PL-480 HEW.
Order from OTS $2.00 TT-63-11069

Trans. of mono. Prirodnoochagovye Bolezni Cheloveka, Moscow, 1960.

Pavlovskii, E. N., Petrishcheva, P. A., Shekhanov, M. V., and Zhmaeva, Z. M.
TICK-BORNE ENCEPHALITIS. 1963, 32p 54refs PL-480 HEW.
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Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 8, p. 791-796.

Petrishcheva, P. A., Zasukhin, D. N., and Saf'yanov, V. M.
THE LEISHMANIASES. 1963, 38p 60refs PL-480 HEW.
Order from OTS $2.00 in TT-63-11069 (p. 164-201)

Trans. from mono. Prirodnoochagovye Bolezni Cheloveka, Moscow, 1960.

Petrunina, O. M., Polyakova, N. V., and Makaridze, L. V.
THE EFFECT OF SOME HUMAN BODY TISSUES ON THE PROPERTIES OF CHOLERA VIBRIONES AND CHOLERA BACTERIOPHAGES. 16 Oct 63, 8p 9refs JPRS: 21475.
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Trans. from mono. Osobo Opasnye i Prirodno-ochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

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METHODS OF COLLECTION OF IXODID TICKS AND OTHER ECTOPARASITES OF ANIMALS IN NATURAL FOCI OF TICK-BORNE TYPHUS. 1963, 8p 16refs PL-480 HEW.
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Trans. from mono. Prirodnoochagovye Bolezni C Cheloveka, Moscow, 1960.

Piontkovskaya, S. P. and Korshunova, O. S.
ASIATIC TICK-BORNE TYPHUS. 1963, 17p 86refs PL-480 HEW.
Order from OTS $2.00 in TT-63-11069 (p. 55-71)

Trans. from mono. Priordnoochagovye Bolezni Cheloveka, Moscow, 1960.

Potulov, B. M. and Il'ichev, V. S.
LENIN'S ANALYSIS OF THE SOCIAL BASIS OF PUBLIC HEALTH AND PRESENT-DAY CONDITIONS. 21 Oct 63, 15p refs JPRS: 21526.
Order from OTS $2.75 in TT-63-31975 (p. 1-15)

Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8. (Abstract available)

Pustovalov, V. L., Ovanesova, N. G., Konnova, A. M., and Kolesnikova, L. I.
STUDY OF THE ANTIGENIC COMPOSITION OF THE PLAGUE MICROBE (PASTEURELLA PESTIS EV OF THE NIIEG) BY THE METHOD OF DIFFUSION IN GEL. 16 Oct 63, 10p 17refs JPRS: 21475
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Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

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POSTABORTAL ANAEROBIC SEPSIS. 1963, 3p 8refs PL-480 HEW.
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Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 8, p. 813-814.

Radonic, M.
URGENT TREATMENT OF BODY FLUID AND ELECTROLYTES UNBALANCE. 1963, 19p 16refs PL-480 HEW.
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Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 7, p. 679-696. (Abstract available)

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ECHINOCOCCUS OF THE HEART. 1963, 13p 11refs PL-480 HEW.
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Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 7, p. 661-672.

Ruvidic, R., Rolovic, Z., Pendic, S., and Kostic, K.
A CASE OF THALASSEMIA MINOR. 1963, 6p 20refs PL-480 HEW.
Order from OTS $0.75 in TT-62-11763/7 (p. 38-43)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 7, p. 673-678. (Abstract available)

Samoilova, L. V.
THE INFECTION PHASE OF IMMUNITY IN ANIMALS INOCULATED WITH EV VACCINE. 16 Oct 63, 6p 6refs JPRS: 21475.
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Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Smirnov, B. N.
FIXATION AND PROPAGATION OF A PATHOGEN IN THE ISOLATED LIVER OF THE IMMUNE AND NON-IMMUNE ORGANISM (ON THE PATHOGENESIS OF RECURRENCES OF PARATYPHOID INFECTION AFTER ANTIBIOTIC THERAPY). 21 Oct 63, 9p 18refs JPRS: 21526.
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Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8. (Abstract available)

Smorodintsev, A. A., Golubev, D. B., and Smorodintsev, Al. A.
PROBLEMS OF THE ETIOLOGY, EPIDEMIOLOGY AND LABORATORY DIAGNOSIS OF BOTKIN'S DISEASE. 21 Oct 63, 15p 113refs JPRS: 21526.
Order from OTS $2.75 in TT-63-31975 (p. 96-110)

Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8.

Sokolova, N. M. and Nikitina, G. P.
DETECTION OF BACTERIOPHAGE IN THE BODIES OF ANIMALS WITH THE AID OF CHLOROFORM. 16 Oct 63, 4p 1ref JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 274-277)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Tumanskii, V. M., Uryupina, N. V., Knyazeva, V. A., and Malinina, Z. E.
METHOD OF STUDY OF DECAYING MATERIAL CONTAINING THE PLAGUE PATHOGEN WITH THE AID OF BACTERIOPHAGE. 16 Oct 63, 4p JPRS: 21475.
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Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

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GASTRIC CANCER AND SERUM ALKALINE PHOSPHATE ACTIVITY. 1963, 8p 34refs PL-480 HEW.
Order from OTS $0.50 in TT-62-11763/8 (p. 8-15)

Trans. of Lijecnicki Vjesnik (Yugoslavia) 1962, v. 84, no. 8, p. 773-779. (Abstract available)

Vygodchikov, G. V., Vorob'ev, A. A. and others.
A STUDY OF IMMUNOLOGICAL EFFECTIVENESS OF OCTATOXOID IN REMOTE REVACCINATION (Eksperimental'noe Izuchenie Assotsiirovannykh Anaerobnykh Anatoksinov. Soobshchenie IV. Izuchenie Immunologicheskoi Effektivnosti Oktaanatoksina pri Otdalennoi Revaktsinatsii). Communication 4 on Experimental Study of Associated Anaerobic Toxoids. 2 July 63, 10p. Trans. V-1834.
Available from OTS, SLA, or ETC $1.10 TT-63-23121

Trans. of Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii (USSR) 1963, v. 40, no. 1, p. 127-132.

Yeh, Yung-pin.
HYPEREXTENSION OF THE APPENDIX. 24 Oct 63, 3p JPRS: 21587
Order from OTS $2.25 in TT-63-31998 (p. 15-17)

Trans. of Chung Hua Wai K'o Tsa Chih (Chinese People's Republic) 1963 [v. 11] no. 7, p. 570.

Zhdannikova, I. P.
STUDY OF BONE MARROW CHANGES IN VACCINAL PROCESSES. 16 Oct 63, 7p 20refs JPRS: 21475
Order from OTS $5.00 in TT-63-31949 (p. 173-179)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

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Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p.

Anichkov, S. V.
PHARMACOLOGY OF NEW SEDATIVE DRUGS AND THEIR CLINICAL USE: COLLECTION OF WORKS. Compiled on the basis of Reports of the Scientific Conference on Pharmacology and Clinical Application of Tranquilizers (no. 1) Leningrad, 1960. 26 Aug 63, 193p 286refs I-2226.
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Trans. of mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p.

Anichkov, S. V. and Borodkin, Yu. S.
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Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Anichkov, S. V. and Denisenko, P. P.
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Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Anichkov, S. V., Khromov-Borisov, N. V., Borodkin, Yu. S., and Vinogradova, N. B.
CONNECTION BETWEEN STRUCTURE AND EFFECT IN THE SERIES OF MONOCYCLIC ANALOGUES OF CAFFEINE AND THEOPHYLLINE. 26 Aug 63, 5p I-2226.
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Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Bakman, A. M.
A FEW DATA ON THE USE OF CENTRAL CHOLINOLYTIC METAMIZIL (METHYLDIAZIL) IN THE ANESTHESIOLOGICAL PRACTIVE IN BONE AND JOINT OPERATIONS. 26 Aug 63, 2p I-2226.
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Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

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Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Borodkin, Yu. S.
EFFECT OF ANTIFFEINE AND OF ITS DERIVATIVES ON THE CONDITIONED REFLEX (CRef) ACTIVITY OF WHITE MICE AND RATS. 26 Aug 63, 8p I-2226.
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Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

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INFLUENCE OF ANTIFFEINE AND ITS DERIVATIVES ON THE AFFERENT PART (=AP) ON THE RETICULAR FORMATION (=RetF) AND THEIR INTERRELATION WITH AMINAZIN. 26 Aug 63, 5p I-2226.
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Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Borodkin, Yu. S.
INFLUENCE OF ANTIFFEINE AND ITS DERIVATIVES ON THE STRENGTH AND DURATION OF THE EFFECT OF HYPNOTICS, NARCOTICS, ANALGETIC AGENTS AND SOME ANALEPTICS. 26 Aug 63, 5p I-2226.
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Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Borodkin, Yu. S.
INFLUENCE OF ANTIFFEINE AND ITS DERIVATIVES UPON THE CENTERS OF THE FLOW OF ENTERIC JUICE. 26 Aug 63, 3p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 162-164)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Borodkin, Yu. S.
RELATIONSHIP BETWEEN THE STRUCTURE OF DIAMIDE DERIVATIVES OF IMIDAZOLEDICARBOXYLIC ACIDS AND THEIR EFFECTS ON DIFFERENT PARTS OF THE CENTRAL NERVOUS SYSTEM.
21 Oct 63, 11p 27 refs JPRS: 21526.
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Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8. (Abstract available)

Borodkin, Yu. S. and Bo-i, Tzin'.
INFLUENCE OF ANTIFFEINE ON THE RESPIRATORY AND CARDIOVASCULAR SYSTEMS. 26 Aug 63, 3p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 170-172)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Chiaudano, C., Favro, P. G., and Rizzello, N.
COLIMYCIN AND ITS ASSOCIATION WITH PENICILLIN IN UROLOGIC CONDITIONS. [1963] 4p.
Order from SLA $1.10 TT-63-18495

Trans. of Minerva Med[ica] (Italy) 1958, v. 49 [no. 97] p. 4536-4537.

Denisenko, P. P.
DEPRESSANT ACTION OF CENTRAL CHOLINOLYTICS UPON THE SEXUAL REFLEXES (=SecRf-s). 26 Aug 63, 4p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 118-121)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Denisenko, P. P.
EXPERIMENTAL SUBSTANTIATION OF THE USE OF CENTRAL CHOLINOLYTICS IN SURGERY. 26 Aug 63, 5p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 71-75)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available).

Denisenko, P. P.
SOME FUNCTIONAL CHANGES IN THE CENTRAL NERVOUS SYSTEM (CNS) ARISING UNDER THE INFLUENCE OF CHOLNOLYTIC AGENTS. 26 Aug 63, 11p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 16-25)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Denisenko, P. P., Chernin, M. S., and Rudaev, Ya. A.
CHANGES IN BASAL METABOLISM AND RESPIRATION IN PEOPLE AT INCLUSION OF CENTRAL CHOLINOLYTICS IN PREMEDICATION. 26 Aug 63, 4p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 79-82)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Denisenko, P. P.
CENTRAL CHOLINOLYTICS AS ONE OF THE AGENTS FOR THE PREVENTION OF CEREBRAL EDEMA. 26 Aug 63, 6p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 88-93)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Drozhevkina, M. S.
ANTIGENIC STRUCTURE OF BRUCELLAS IN CONNECTION WITH THE PROBLEM OF SPECIFIC PROPHYLAXIS AND THERAPY. 16 Oct 63, 7p 13refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 110-116)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Golikov. S. N. and Loktionov, S. I.
PHARMACOLOGICAL CHARACTERIZATION OF SUBSTANCES WHICH INHIBIT ACETYLCHOLINE SYNTHESIS IN THE BODY. 21 Oct 63, 16p 66refs JPRS: 21526.
Order from OTS $2.75 in TT-63-31975 (p. 111-127)

Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8.

Grechishkin, L. L.
INFLUENCE OF SOME CENTRAL NEUROTROPIC SUBSTANCES AND DERIVATIVES OF IMIDAZOL DICARBONIC ACID DIAMIDES UPON THE MOTOR ACTIVITY OF THE EMPTY STOMACH. 26 Aug 63, 6p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 156-161)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p (Abstract available)

Ignat'eva, M. A.
EFFECT OF HEXONIUM, DIPHACIL AND PENTAPHEN ON THE ANTIDIURETIC (AD) FUNCTION (ADF) OF THE NEUROHYPOPHYSIS (=POSTERIOR PORTION OF PITUITARY=PPP). 26 Aug 63, 2p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 115-116)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Ignat'eva, M. A.
INFLUENCE OF ETHYL-NOR-ANTIFFEINE UPON THE CARDIOVASCULAR SYSTEM. 26 Aug 63, 2p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 173-174)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Igonina, N. B.
THE EFFECT OF DIFFERENT ANTIBIOTIC COMBINATIONS ON THE CULTIVATION OF BRUCELLAS IN VITRO. 16 Oct 63, 9p 23refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 116-124)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Il'yuchenok, R. J.
ELECTROPHYSIOLOGICAL ANALYSIS OF THE MECHANISM OF THE CENTRAL ACTION OF BENZILIC ACID ESTERS AND PHENOTHIAZINE DERIVATIVES. 26 Aug 63, 7p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 29-33)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Isachenko, V. B.
EFFECT OF CENTRAL CHOLINOLYTICS UPON THE HYPNOTIC EFFECT OF BARBAMIL AND CHLORALHYDRATE IN MICE. 26 Aug 63, 3p I-2226.
Order from OTS $2.50 in TT-63-11725 (p. 76-78)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Kats, A. M.
COMPARATIVE CHARACTERISTICS OF THE GENERAL CHOLINOLYTIC ACTION OF AMIZIL AND OF ITS THIO ANALOGUE. 26 Aug 63, 3p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 26-28)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Kostin, E. D.
EMPLOYMENT OF ANTIFFEINES IN ANESTHESIOLOGY. 26 Aug 63, 2p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 178-179)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p.

Kostin, E. D.
THE USE OF THE CENTRAL CHOLINOLYTIC METAMIZIL IN ANESTHESIOLOGY. 26 Aug 63, 2p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 94-95)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p.

Lalazarova, I. G.
THERAPEUTIC AND PROPHYLACTIC EFFECTS OF TERRAMYCIN IN EXPERIMENTAL PLAGUE IN WHITE MICE. 16 Oct 63, 6p 4refs JPRS: 21475
Order from OTS $5.00 in TT-63-31949 (p. 100-105)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p.
(Abstract available)

Lavrov, B. A. and Terent'eva, E. L.
REACTION OF THE ORGANISM TO THE ADMINISTRATION OF HIGH DOSES OF VITAMIN D_2 (EXPERIMENTAL DATA). 21 Oct 63, 9p 26refs JPRS: 21526.
Order from OTS $2.75 in TT-63-31975 (p. 79-86a)

Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8. (Abstract available)

Lenskaya, G. N., Smirnova, E. I., Ivanov, N. R., Ermilov, A. P., and Zubova, M. V.
TREATMENT AND PROPHYLAXIS OF EXPERIMENTAL PLAGUE WITH MONOMYCIN, NEOMYCIN AND ANTIBIOTICS OF THE TETRACYCLINE SERIES. 16 Oct 63, 14p 37refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 78-91)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p.
(Abstract available)

Levtova, F. A.
DATA ON THE MECHANISM OF ACTION OF AMINAZINE AND HYPOTHERMIA ON INTEROCEPTIVE REFLEXES (Materialy k Mekhanizmu Deistviya Aminazina i Fizicheskogo Okhlazhdeniya na Interotseptivnye Refleksy) tr. by Wanda M. Feeley. May 61, 16p. (refs. omitted). PSC no. 60-580.
Order from OTS, SLA or ETC $1.60 TT-63-19115

Trans. of Zhurnal Nevropatologii i Psikhiatrii (USSR) 1960, v. 60 [no. 2] p. 210-219. (Abstract available)

Livanov, G. A.
THE USE OF METAM'ZIL (METHYLDIAZIL) IN THE COMPOSITION OF PREMEDICATION FOR INTUBATION GENERAL ANESTHESIA. 26 Aug 63, 6p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 100-105)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Makhsumov, M. N.
ON THE MECHANISM OF THE CENTRAL AND PERIPHERAL ACTION OF METAMIZIL AND METHYLDIPHACIL UPON THE FUNCTION OF THE GASTROINTESTINAL TRACT (GI TRACT). 26 Aug 63, 4p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 61-63a)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Malinina, Z. E.
DIRECTED VARIATION OF THE PLAGUE MICROBE UNDER THE INFLUENCE OF STREPTOMYCIN WITH THE AIM OF OBTAINING VACCINE STRAINS. 16 Oct 63, 5p 6refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 131-135)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p.
(Abstract available)

Malkhina, M. G. and Rozovskii, A. M.
TRIAL USE OF METAMIZIL IN PEPTIC ULCER. 26 Aug 63, 4p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 64-67)

Trans. of mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Malygina, E. I.
ACTION OF CENTRAL CHOLINOLYTICS UPON THE EPINEPHRINE (ADRENALINE) SECRETION OF THE SUPRARENAL GLANDS. 26 Aug 63, 4p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 111-114)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Masevich, Ts. G. and Makhsumov, M. N.
TREATMENT OF DUODENAL ULCER WITH METHYLDIAZIN AND METHYLDIPHACIL. 26 Aug 63, 3p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 68-70)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Mnukhin, S. S. and Sluchevskii, F. I.
TRIAL USE OF ANTIFFEINE PREPARATION IN THE PSYCHIATRIC CLINIC. 26 Aug 63, 3p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 180-182)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p.

Poskalenko, A. N.
EFFECT OF THE CENTRAL CHOLINOLYTICS UPON THE PITUITARY-SUPRARENAL SYSTEM (=PitSupS). 26 Aug 63, 5p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 106-110)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primeneine: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Pratisevich, Yu. M. and Malomuzh, F. F.
CHANGES IN THE SPECTRUM OF REACTIVE POTENTIALS OF THE BRAIN IN CHILDREN AT THE ACTION OF SUBSTANCES WHICH BLOCK THE ADRENERGIC AND CHOLINERGIC SYSTEMS OF THE CENTRAL SYNAPSES IN THE BRAINSTEM. 26 Aug 63, 7p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 34-37b)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Richou, R. and Richou, H.
ACTION OF ANTAGONISTIC COMPLEXES WITH STREPTOMYCIN AND SUBTILIN BASE ON THE ANTIGENIC POWER OF STAPHYLOCOCCIC TOXINS AND ANATOXINS. [1963] [20]p.
Order from SLA $1.60 TT-63-18358

Trans. of Revue d'Immunologie [et de Therapie Antimicrobienne] (France) 1962, v. 26, no. 5/6, p. 297-311 (Abstract available)

Ruzhenkov, V. E.
INFLUENCE OF ALKYL DERIVATIVES OF IMIDAZOL CARBONIC ACID DIAMIDES UPON THE ADRENOCORTICOTROPIC FUNCTION OF THE PITUITARY. 26 Aug 63, 9p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 147-155)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p.

Savostin, D. G., Lenskaya, G. N., Korobkova, E. I., Tumanskii, V. M., and Antonov, A. M.
TREATMENT OF BUBONIC AND PNEUMONIC PLAGUE IN GUINEA PIGS WITH COLIMYCIN AND MYCERIN. 16 Oct 63, 7p JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 91-97)

Trans. from mono. Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Sluchevskii, [F.] I.
MATERIALS ON THE USE OF METAMIZIL PREPARATION (METHYLDIAZIL, IEM-275) AT THE PSYCHIATRIC CLINIC. 26 Aug 63, 3p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 45-47)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Söhring, K.
CONCERNING A FEW NEW SUBSTANCES WITH LOCAL ANALGESIC ACTION WITH REMARKS ON THE THEORY OF LOCAL ANALGESIA. [1963] 3p
Order from SLA $1.10 TT-63-18940

Trans. of [Naunyn-Schmiedeberg's] Archiv [für] Exp[erimentelle] Pathol[ogie und Pharmakologie] (West Germany) 1951, v. 212, no. 1/2, p. 129-131.
Another trans. is available from LC or SLA mi$1.80, ph$1.80 as 60-13281, 2 Dec 59, 3p. (Abstract available)

Sternin, M. O.
RESULTS OF THE CLINICAL TRIAL OF METAMIZIL (METHYLDIAZIL) IN ANESTHESIOLOGY. 26 Aug 63, 3p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 83-85)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Strenin, M. O., Nilushkova, G. V., and Pulatov, A. T.
TRIAL USE OF PREPARATIONS OF THE ANTIFFEINE GROUP IN ANESTHESIOLOGY. 26 Aug 63, 3p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 175-177)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Sung, Hsiang-ming and others.
RESEARCH AND APPLICATION OF SOME LONG-ACTING LIQUID LOCAL ANAESTHETICS. 24 Oct 63, 6p JPRS: 21587.
Order from OTS $2.25 in TT-63-31998 (p. 6-11)

Trans. of Chung Hua Wai K'o Tsa Chih (Chinese People's Republic) 1963 [v. 11] no. 7, p. 530-531. (Abstract available)

Tomilina, T. N.
EFFECT OF DIPHACIL ON THE THYREOTROPIC (=TT) FUNCTION (=TTF) OF THE PITUITARY. 26 Aug 63, 2p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 117-117a)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p.

Trifonova, A. A., Derteva, I. I., Sidorova, N. K., Denisova, E. P., and Martens, L. A.
PREVENTIVE AND THERAPEUTIC PROPERTIES OF GAMMA-GLOBULIN OF ANTIPLAGUE SERA EXPRESSED AS THE PD_{50}. 16 Oct 63, 5p 2refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 105-109)

Trans. from mono. Osobo Opasnye i Prirodno-ochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Turkevich, O. M., Danilyuk, S. I., Shekhtman, M. L. Zelenskaya, M. S., and Lipskaya, E. I.
TRIAL USE OF METAMIZIL (METHYLDIAZIL) AS A SEDATIVE AGENT IN INVOLUTIONAL AND VASCULAR PSYCHOSES. 26 Aug 63, 8p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 48-55)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Turkevich, O. M., Kutzururuba, E. N., and Zelenskaya, M. S.
TRIAL USE OF MEDIPHACIL (METHYLDIPHACIL) AND METAMIZIL (METHYLDIAZIL) IN PSYCHIATRIC PRACTICE. 26 Aug 63, 7p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 38-44)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Turkevich, O. M., Kutsuruba, E. N., Pisanets, O. T., Zelenskii, S. N., and Usherenko, L. S.
THERAPEUTIC ACTION OF SPASMOLYTIN (DIPHACIL) IN MANIC-DEPRESSIVE PSYCHOSIS AND SCHIZOPHRENIA. 26 Aug 63, 5p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 56-60)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Volkova, V. D. and Kudryatseva, N. N.
EFFECT OF ANTIFFEINE ON THE SALIVARY AND SITUATIONAL CONDITIONED REFLEXES OF DOGS. 26 Aug 63, 6p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 132-137)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Vol'pert, E. I. and Selivra, A. I.
EXPERIENCE WITH THE USE OF METAMIZIL (METHYLDIAZIL) IN THE ANESTHESIOLOGICAL PRACTICE. 26 Aug 63, 4p I-2226.
Order from OTS $3.50 in TT-63-11725 (p. 96-99)

Trans. from mono. Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad, 1962, 225p. (Abstract available)

Wildhack, R.
COLCEMIDE AND MYLERAN IN THE TREATMENT OF CHRONIC MYELOSIS (Colcemid und Myleran in der Behandlung der Chronischen Myelose). Mar 63, 13p. 31 refs.
Order from SLA $1.60 TT-63-16344

Trans. of D[eu]tsch[e] Med[izinische] W[ochen]schr[ift] (West Germany) 1957, v. 82, p. 342-346.

Zaitsev, V. A.
THE ACTION OF MYCERIN ON THE TOXIN AND TOXIN-PRODUCTION OF THE PLAGUE MICROBE. 16 Oct 63, 7p 25refs JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 135-141)

Trans. from mono. Osobo Opasnye i Prirodno-ochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Zakharova, G. A.
THERAPEUTIC PROPERTIES OF MONOMYCIN IN BUBONIC PLAGUE IN GUINEA PIGS. 16 Oct 63, 4p JPRS: 21475.
Order from OTS $5.00 in TT-63-31949 (p. 97-100)

Trans. from mono. Osobo Opasnye i Prirodno-ochagovye Infektsii, Moscow, 1962, 272p. (Abstract available)

Radiobiology

Arnautov, A. K. and others.
COMPARATIVE STUDY OF THE EFFECT ON ANIMAL BODIES OF 197-kv X-RADIATION AND BREMSSTRAHLUNG FROM A 3-mev LINEAR ACCELERATOR (Sravnitel'noe Izuchenie Vozdeistviya na Organizm Zhivotnykh Rentgenovskikh Izluchenii pri 197 kv i Tormoznykh Izluchenii, Poluchennykh na Lineinom Uskoritele pri 3 mev) tr. by Lydia Venters. Mar 63 [7]p.
Order from OTS, SLA, or ETC $1.10 AEC-tr-5721

Trans. of Radiobiologiya (USSR) 1962 [v. 2] no. 2, p. 211-[215].

Babmindra, V. P.
POST-TRAUMATIC DEGENERATION AND REGENERATION OF SYNAPSES AFTER EXPOSURE TO PENETRATING RADIATION. [1963] [11]p. 5 refs. FASEB Manuscript no. S 238-2.
Order from OTS, SLA or ETC $1.60 TT-63-23006

Trans. of Byulleten' Eksperimental'noi Biologii i Meditsiny (USSR) 1962, v. 53, no. 1, p. 112-117. An unedited rough draft trans. is available from OTS or SLA $1.60 as 62-24922, FTD-TT-62-362, 30 Mar 62 [11]p. (Abstract available)

Cherkasova, L. S., Fomichenko, K. B. and others.
IONIZING RADIATION AND METABOLISM. 11 Jul 63 [224p] 597refs FTD-TT-62-1575.
Order from OTS $3.50 TT-63-11739

Unedited rough draft trans. of mono. Ioniziruyushchee Izluchenie i Obmen Veshchestv, Minsk, 1962, 174p. (Abstract available)
DESCRIPTORS: *Metabolism, *Radiation effects, *Nervous system, *Endocrine glands, *Liver, *Gastrointestinal system, *Muscles, Biochemistry,

Dmitrieva, E. V.
NUCLEIN METABOLISM IN REGENERATION OF SKELETAL MUSCULATURE UNDER VARIOUS CONDITIONS OF ROENTGEN IRRADIATION. 10 Sep 63, 13p 18refs JPRS: 20997; N63-22587.
Order from OTS $0.50 TT-63-31716

Trans. of Arkhiv Anatomii, Gistologii i Embriologii (USSR) 1963, v. 44, no. 6, p. 40-47.

Osipov, Yu. A., Vol'fovskaya, R. N. and others.
CONCERNING THE PROBLEM OF THE COMBINED EFFECT OF A HIGH FREQUENCY ELECTROMAGNETIC FIELD AND X-RAY IRRADIATION UNDER INDUSTRIAL CONDITIONS. 30 Aug 63, 7p JPRS: 20872.
Order from OTS $0.50 TT-63-31658

Trans. of Gigiena i Sanitariya (USSR) 1963, v. 28, no. 6, p. 35-38. (Abstract available)

Rubanovskaya, A. A.
COMPOUNDS USED IN THE ELIMINATION OF RADIO ACTIVE SUBSTANCES IN THE ORGANISM [AND] POLYVINYL PYRROLIDONE IN AFFECTIONS WITH CERTAIN RADIOACTIVE ISOTOPES. 18 Oct 63, 19p 18refs JPRS: 21511.
Order from OTS $0.75 TT-63-31967

Trans. of mono. Materialy po Toksikologii Radioaktivnykh Veshchestv (Material on the Toxicology of Radioactive Substances) Moscow, 1962, p. 160-173. (Abstract available)

Saksonov, P. P., Antipov, V. V., and Dobrov, N. N.
SOME RESULTS AND TASKS IN THE FIELD OF SPACE RADIOBIOLOGY. 21 Oct 63, 11p 16refs JPRS: 21526.
Order from OTS $2.75 in TT-63-31975 (p. 16-26)

Trans. from Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 8. (Abstract available)

Ulitovskii, D. A.
POSTMORTEM DISCOVERY OF RADIOISOTOPE CONTAMINATION OF MAN. 10 Sep 63, 7p 5refs JPRS: 20988; N63-22432.
Order from OTS $0.50 TT-63-31709

Trans. of Arkhiv Patologii (USSR) 1963, v. 25, no. 6, p. 67-71. (Abstract available)

Zoology

THE CHINESE SOCIETY OF SERICULTURE ORGANIZED [AT WUSIH, 27 MAR 63]. 20 Sep 63, 3p JPRS: 21166.
Order from OTS $1.25 in TT-63-31800 (p. 37-39)

Trans. of Chung Kuo Nung Yeh K'o Hsüeh (Chinese People's Republic) 1963, no. 5, p. 54.

SURVEYS OF FRESH-WATER FISHES PRODUCE ENCOURAGING RESULTS. 24 Oct 63, 2p JPRS: 21587.
Order from OTS $2.25 in TT-63-31998 (p. 27-28)

Trans. of Chung Kuo Hsin Wen (Chinese People's Republic) 1963, 29 Aug, p. 5.

Berg, L. S. and others.
GORBUSHA (PINK SALMON) OCCORHYNCHUS GORBUSCHA (WALBAUM) tr. by Wilvan G. VanCampen. 1956, 4p.
Order from OTS, SLA, or ETC $1.10 TT-62-23278

Trans. of mono. Promyslovye Ryby SSSR (Commercial Fishes of the USSR) Moscow, 1949, p. 154-156.

Glukhova, V. M.
ON THE GONOTROPHICAL CYCLE OF THE MIDGES OF GENUS CULICOIDES (DIPTERA, HELEIDAE) OF THE KARELIAN ASSR, tr. by R. Ericson. Aug 60 [12]p (Eng. summary figs tables omitted)
Order from OTS, SLA, or ETC $1.60 TT-63-23594

Trans. of Parazitol[ogicheskii] Sborn[ik] (USSR) 1958, v. 18, p. 239-254. (Abstract available)

Khlebovich, V. V.
CHARACTERISTICS OF THE AQUATIC FAUNA COMPOSITION IN RELATION TO THE SALINITY OF THE MEDIUM. 26 Aug 63, 10p 32refs JPRS: 20807.
Order from OTS $0.50 TT-63-31624

Trans. of Zhurnal Obshchei Biologii (USSR) 1962, v. 23, no. 2, p. 90-97. (Abstract available)

Narzykulov, M. N.
SOME RESULTS OF STUDIES ON THE DENDROPHILOUS APHIDS (HOMOPTERA APHIDIDAE) OF TADZHIKISTAN, tr. by R. Ericson. June 60, 14p.
Order from OTS, SLA, or ETC $1.60 TT-63-23592

Trans. of Ent[omologicheskoe] Obozr[enie] (USSR) 1957, v. 36, no. 4, p. 877-894. (Abstract available)

Pokrovskii, V. V.
BASIC ENVIRONMENTAL FACTORS DETERMINING THE ABUNDANCE OF THE WHITEFISH. 1963 [10p] 10refs NLL M. 10393.
Order from OTS, SLA, or ETC $1.10 TT-63-23523

Trans. of [Akademiya Nauk SSSR. Ikhtiologicheskaya Kommissiya]. Trudy Soveshchanii, 1961, no. 13, p. 228-234 ([soveshchanie po Dinamike Chislennosti Ryb] Conference on the Population Dynamics of Fishes, Moscow, 1960) (Abstract available)

Simkina, R. G. and Turpaeva, E. P.
THE EFFECT OF VARIOUS SALINITY AND TEMPERATURE CONDITIONS ON THE GROWTH RATE OF LEPRALIA PALLASIANA MOLL. COLONIES (Vliyanie Uslovii Razlichnoi Solenosti i Temperatury na Temp Rosta Kolonii Korkovoi Mshanki Lepralya Pallasyana Moll) tr. by M. Slessers. 1963 [9]p 13refs NOO Trans-181.
Order from OTS, SLA, or ETC $1.10 TT-63-23761

Trans. of [Akademiya Nauk SSSR]. Institut Okeanologii. Trudy, 1961, v. 49, p. 200-204. (Abstract available)

Ting, Tao-mo.
SCIENTIFIC CONFERENCE HELD BY THE PINE-MOTH RESEARCH GROUPS OF EASTERN CHINA [NANKING, NOV 62]. 20 Sep 63, 5p JPRS: 21166.
Order from OTS $1.25 in TT-63-31800 (p. 27-31)

Trans. of Lin Yeh K'o Hsüeh (Chinese People's Republic) 1963, no. 2, p. 194.

Zaitsev, V. P.
UNDERWATER FISHERIES RESEARCH IN THE U. S. S. R. (Rybokhozyaistvennye Podvodnye Issledovaniya v SSSR) tr. by W. G. Van Campen. Feb 63, 11p. 1 ref.
Order from OTS, SLA or ETC $1.60 TT-63-19974

Trans. of Okeanologiya (USSR) 1962, v. 2, no. 6, p. 961-969. (Abstract available)
Another trans. is available from OTS $0.50 as 63-21481, JPRS-18501, 2 Apr 63 [14]p.

CHEMISTRY

BULLETIN OF THE CHEMICAL SOCIETY, 1962, VOL. 27, NO. 2/3, tr. by Aleksandra Stojiljkovic. 1963, 122p 196refs PL-480 Comm.
Order from OTS $1.25 TT-62-11757/2-3

Trans. of [Srpsko] Hemisko Drustvo, Belgrad. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 65-74, 77-83, 85-87, 89-93, 95-96, 99-101, 103-108, 111-114, 117-131, 135-152, 157-161, 163-166, 169-171, 173-175.

Bajalovic, Ivan.
A TWOFOLD PERIODIC TABLE. 1963, 4p PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 119-122)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 173-175.

Klyuev, V. N. and Borodkin, V. F.
A REACTION OF ORTHOCARBOXYPHENYLSULPHINIC ACID (O Prevrashchenii O-Karboksifenilsul'finovoi Kisloty). Mar 62 [6]p. 5 refs. RTS 2022.
Order from OTS, SLA or ETC $1.10 TT-62-24295

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960, v. 3, no. 6, p. 1079-1081. (Abstract available)

Analytical Chemistry

Alimarin, I. P. and Medvedeva, A. M.
SEPARATION OF MOLYBDENUM AND IRON BY ION-EXCHANGE CHROMATOGRAPHY, tr. by Sergei Shewchuck. Oct 62 [17]p 10refs
Order from OTS, SLA, or ETC $1.60
UCRL Trans-898 (L)
Trans. of Akademiya Nauk SSSR. Komissiya po Analiticheskoi Khimii. Trudy, 1955, v. 6[9] p. 351-364.

Canic, Velimir D. and Kis, Tibor A.
A CONTRIBUTION TO THE COMPLEXOMETRIC DETERMINATION OF METALS. II. THE DETERMINATION OF COPPER, NICKEL, ZINC, AND MAGNESIUM. 1963, 9p 24refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 47-55)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 103-108.

Celap, M. B., Janjic, T. J., and Ristic, M.
THE DETERMINATION OF MICRO AMOUNTS OF ELEMENTS BY CUPRIC FERROCYANIDE RING COLORIMETRY. II. THE DETERMINATION OF COPPER, ZINC, LEAD, NICKEL, AND FERROCYANIDES 1963, 3p 1ref PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 43-45)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 99-101.

Galkina, N. K. and Senyavin, M. M.
CHROMOTOGRAPHIC SEPARATION OF MIXTURES OF ALKALI METALS (ION EXCHANGE) tr. by Sergei Shewchuck. Nov 62 [17]p 13refs
Order from OTS, SLA, or ETC $1.60
UCRL Trans-895 (L)
Trans. of mono. Redkie Shchelochnye Elementy (Rare Alkaline Elements) p. 87-96 (Vsesoyuanoe Soveshchanie po Redkim Shchelochnym Elementam (no. 1) Novosibirsk, 1958).

Golubovic, Vasilije B. and Kasanji, Bela B.
THE DETERMINATION OF SMALL AMOUNTS OF COPPER WITH DITHIZONE IN PURE TIN METAL AND BEARING METAL. 1963, 5p 7refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 27-31)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 85-87.

Hirano, S., Murayama, H., and Kitahara, M.
PHOTOMETRIC DETERMINATION OF MICROGRAM QUANTITIES OF VANADIUM IN BRINE AND COMMON SALT WITH DIPHENYLAMINE-SULFONATE. [1963] 10p.
Order from ATS $15.50 ATS-37Q71J

Trans. of Bunseki Kagaku (Japan) 1956, v. 5 [no. 1] p. 7-11.

Horacek, J. and Grünberger, D.
A MODIFIED RAPID METHOD FOR THE DETERMINATION OF ^{14}C. 9 May 63 [7p] 11refs
Order from SLA $1.10 TT-63-18903

Trans. of [Sbornik Chekhoslovatskykh Khimicheskykh Rabot] 1958, v. 23, p. 1974-1977. (Abstract available)

Jovanovic, Momir S. and Dragojevic, Milica M.
BROMATOMETRIC DETERMINATION OF ANTIMONY BY THE DEAD-STOP METHOD. 1963, 4p 10refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 39-42)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 95-96.

Jovanovic, Momir S., Petrovic, Dusanka, M., and Pavlovic, Dobrila M.
IODOMETRIC AND IODATOMETRIC DETERMINATION OF HYDRAZINE BY THE DEAD-STOP TECHNIQUE. 1963, 6p 6refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 33-38)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 89-93.

Kozlov, A. S.
NEPHELOMETRIC DETERMINATION OF SMALL AMOUNTS OF CESIUM AS CESIUM CADMIUM CYANIDE, tr. by Sergei Shewchuck. Nov 62 [12]p 11refs
Order from OTS, SLA, or ETC $1.60
UCRL Trans-893 (L)

Trans. of mono. Redkie Shchelochnye Elementy (Rare Alkaline Elements) p. 79-85 (Vsesoyuznoe Soveshchanie po Redkim Shchelochnym Elementam (no. 1) Novosibirsk, 1958) (Abstract available)

Peltier, Simonne and Duval, Clement.
CRITICAL STUDY OF THE GRAVIMETRIC DETERMINATION OF CALCIUM IN THE PRESENCE OF MAGNESIUM (Étude Critique du Dosage Gravimétrique du Calcium en Présence de Magnésium). [1963] [21p] (foreign text included) 30refs
Available on loan from SLA TT-63-18576

Trans. of Analytica Chimica Acta (Netherlands) 1947, v. 1, p. 408-416.

Ratushnyi, G. D.
TITROMETRIC DETERMINATION OF HYDROGEN ION CONCENTRATION (Opredelenie Kontsentratsii Vodorodnykh Ionov Titrometricheskim Metodom) tr. by B. Ribush. [1963] [8]p (foreign test included) 2refs [CSIRO] Trans. no. 6334.
Order from OTS, SLA, or ETC $1.10 TT-63-23741

Trans. of Vinodelie i Vinogradarstvo SSSR, 1962 [v. 22] no. 6, p. 3-6.

Inorganic Chemistry

Gurevich, F. A., ed.
CHEMICAL AND BIOLOGICAL ACTION OF ULTRASONICS: TABLE OF CONTENTS AND CONCLUSIONS. 24 Oct 63, 16p JPRS: 21590.
Order from OTS $0.50 TT-63-41001

Trans. of mono. O Khimicheskom i Biologicheskom Deistvii Ul'trazvuk, Krasnoyarsk, 1962, p. 74-81, 156-163, 204, 206-207.

Kutzelnigg, Arthur.
FLUORESCENCE OF ZINC OXIDE-IRON OXIDE MIXTURES AND ITS DEPENDENCE ON THE TEMPERATURE OF HEAT TREATMENT (Die Fluoreszenz von Zinkoxyd-Eisenoxyd-Mischpräparaten und ihre Abhängigkeit von der Temperatur der Wärmedbhandlung). [1963] [6]p (foreign text included) 5refs
Order from SLA $1.10 TT-63-16757

Trans. of Z[eitschrift] f[ür] Anorg[anische] [und] Allg[emeine] Chemie (Germany) 1935, v. 223, p. 251-252.

Mikhailov, M. A.
PRODUCTION OF HYDROFLUORIC ACID BY THE PYROHYDROLYSIS OF FLUORITE. [1963] 51p.
Order from ATS $42.50 ATS-01Q70R

Trans. of Akad[emiya] Nauk SSSR. Dal'nevost[ochnyi] Filial [Vladivostok]. Tr[udy]: Ser[iya] Khim[icheskaya] 1961, v. 5, p. 46-98.

Pardo, Marie Paule, Flahaut, Jean, and Domange, Louis.
THE TELLURIDES OF THE ELEMENTS OF THE RARE EARTHS WITH A GENERAL FORMULA MTe_2. [1963] 4p. 3 refs.
Order from SLA $1.10 TT-63-18164

Trans. of [Academie des Sciences] Paris. Comptes Rendus (France) 1963, v. 256, no. 4, p. 953-955 (pub. by Gauthier-Villars et Cie., Paris). (Abstract available)

Smirnov, M. V. and Volchenkova, Z. S.
EQUILIBRIUM POTENTIALS OF OXIDE-CARBON ELECTRODES OF BERYLLIUM IN FUSED CHLORIDES. [1963] 13p (figs omitted)
Order from K-H $13.00 K-H 8653

Trans. of #Zhurnal Neorganicheskoi Khimii (USSR) 1957, v. 2 [no. 2] p. 417-421.

Wiberg, E., Graf, H., and Uson, R.
ABOUT MONOMERIC ALUMINUM HYDRIDE AlH_3. [1963] 19p
Order from K-H $19.00 K-H 10464

Trans. of Zeitschrift für Anorganische und Allgemeine Chemie (East Germany) 1953, v. 272, p. 221-232.

Organic Chemistry

POLYMER SCIENCE USSR, 1963, VOL. 4, NO. 3, P. 397-600. Sep 63, 1v.
Order from PP $140.00/year (single articles available)

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1303-1309, 1324-1332, 1338-1344, 1354-1374, 1380-1384, 1390-1393; no. 10, p. 1486-1502, 1515-1527, ##1528-1536; no. 11, p. 1654-1671, ##1682-1695, 1739-1745; no. 12, p. 1770-1783, 1796-1798, 1806-1811, ##1822-1828. Abstracts are included of selected articles from v. 4, no. 11-v. 5, no. 2.
##Other translations are available elsewhere.

SULFONATION PROCESS. [1963] 2p
Available on loan from SLA TT-63-18189

Trans. of French patent 754,361 [pub] 28 Aug 33, appl. 14 Apr 33.

Amirkhanova, I. B., Borisov, A. V., Gverdtsiteli, I. G., Karamyan, A. T., and Kucherov, R. Ya.
COEFFICIENTS OF VAPORIZATION OF LIQUID C_2H_5OH, BCl_3, BF_3 AND CH_4. [1963] 7p
Order from K-H $7.00 K-H 13070

Trans. of Akademiya Nauk SSSR. Doklady, 1963, v. 149, no. 1, p. 114-116.

Beck, Mihaly and Gorog, Sandor.
CATALYTIC EFFECT OF OXYGEN-CARRYING COMPLEXES A STUDY OF THE SYSTEM COBALT (II)-GLYCYLGLYCINE-ASCORBIC ACID-OXYGEN. [1963] 14p
Order from K-H $14.00 K-H 13081

Trans. of Magyar Kemiai Folyoirat (Hungary) 1963, v. 69, no. 2, p. 56-60.

Chabrier, P. and Nachmias, G.
DERIVATIVES OF DITHIOCARBAMIC ACID. [1963] [38p] 129refs
Order from SLA $3.60 TT-63-20325

Trans. of Soc[iété] Chim[ique de France. Bulletin] 1950, p. D51-D65. (Abstract available)

Domrachev, G. A. and Razuvaev, G. A.
THE INTERACTION OF DIBENZENECHROMIUM (O) AND ACRYLONITRILE AND THE MECHANISM OF POLYMERIZATION OF THE LATTER. Sep 63, 9p 24refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 567-575

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 12, p. 1822-1828. (Abstract available) Another trans. is available from ATS $12.50 as ATS-89Q68R [1963] 8p.

Ebert, Ludwig and Bull, Reinhard.
METHOD FOR THE REMOVAL OF LOW BOILING ALDEHYDES FROM CYCLIC ETHERS SUCH AS DIOXANE. [1963] [3p]
Available on loan from SLA TT-63-20184

Trans. of German patent 651,111, 20 Jul 34.

Gol'dberg, K. M., Gel'fandbein, N. M. and others.
METHOD OF TRANSESTERIFICATION OF VEGETABLE OILS, tr. by L. H. 8 Aug 63, 2p
Order from OTS, SLA, or ETC $1.10 TT-63-23780

Trans. of USSR author's certificate no. 128,193, cl. 421,3/04, appl. 22 Aug 59, pub. 28 Apr 60 (pub. in #Byulleten' Izobretenii (USSR) 1960, no. 9).

Heilpern, Johann.
ON THE SO-CALLED THIOACETONES: PREPARATION OF PINACOLENE THIOUREA. [1963] 2p
Available on loan from SLA TT-63-20511

Partial trans. of Monatshefte für Chemie (Austria) 1896, v. 17, p. 232-235.

Janjic, T. J., Celap, M. B., and Spevak, P.
THE STUDY OF THE REACTIONS OF HEXANITRO-COBALTATES (III) WITH AMINO ACIDS. I. THE PREPARATION OF DINITRODIGLYCINECOBALTATES (III). 1963, 6p 4refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 57-62)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 111-114.

Kipryanov, A. I. and Shrubovich, V. A.
STERIC HINDRANCE IN QUATERNARY SALTS OF 2-ARYLBENZOTHIAZOLES AND 2-ARYLBENZOSELE-NAZOLES. [1963] 9p.
Order from ATS $8.85 ATS-49Q71R

Trans. of #Zh[urnal] Obshch[ei] Khim[ii] (USSR) 1956, v. 26 [no. 10] p. 2891-2896.

Koeda, Kikuo.
A STUDY ON THE CONDENSATE OF CYANAMIDE AND FORMALDEHYDE. [1963] [8p] 7refs
Order from SLA $1.10 TT-63-18896

Trans. of unidentified mono. Studies on Condensates of Lime Nitrogen Derivatives and Formaldehyde [Tokyo] Oct 59, chap. 2, p. 124-130. (Abstract available)

Korshak, V. V., Chelnokova, G. N., and Distler, G. I.
THE IMPORTANCE OF EXCHANGE REACTIONS IN THE POLYCONDENSATION PROCESS. [1963] 6p (figs omitted) 5refs
Order from OTS or SLA $1.10 63-18667

Trans. of Akademiya Nauk SSSR. Doklady, 1952, v. 82 [no. 4] p. 589-591. (Abstract available)

Kovalevskaya, R. N., Tinyakova, E. I., and Dolgoplosk, B. A.
A STUDY OF HETEROGENEOUS CATALYST SYSTEMS BASED ON COBALT OXIDES AND SALTS AND ORGANO-ALUMINUM COMPOUNDS. Sep 63, 8p 15refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 414-421

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1338-1344. (Abstract available)

Matzke, Josef.
PROCESS FOR PREPARATION OF NOVEL 2-(ARYL-SULFONAMIDO)-1, 3, 5-TRIAZINES, tr. by J. R. P. 14 Aug 63, 10p
Order from OTS, SLA, or ETC $1.10 TT-63-23770

Trans. of Austrian patent 199, 193, cl. 12e3, 22 (addition to pat. 183, 758) to Österreichische Stickstoffwerke AG, filed 13 Aug 54, pat. from 15 Feb 58, pub. 25 Aug 58. (Abstract available)

[Matzke, Josef].
PROCESS FOR THE PREPARATION OF NEW 2-(ARYLSULFONAMIDO)-1, 3, 5-TRIAZINES. [1963] 12p 2refs
Order from OTS, SLA or ETC $1.60 TT-63-18899

Trans. of Austrian patent 199, 193 [cl. 12e3, 22, addition to pat. 183, 758, by Osterreichische Stickstoffwerke AG] filed 13 Aug 54 [pat. from 15 Feb 58] pub. 25 Aug 58. (Abstract available)
Another trans. is available from OTS or SLA $1.10 as 63-23770, 14 Aug 63, 10p.

Monceaux, Pierre.
TESTS ON THE OXIDATION OF SAINT-MARCET GAS BY OXYGEN AT ATMOSPHERIC PRESSURE WITH A VIEW TO THE SYNTHESIS OF FORMALDEHYDE. [1963] 7p 7refs
Available on loan from SLA TT-63-20522

Trans. of Mém[orial des] Serv[ices] Chim[iques de l'] État (France) 1947, v. 33, p. 417-422.

Nametkin, N. S., Topchiev, A. V., Povarov, L. S., and Pritula, N. A.
SYNTHESIS OF ORGANOSILICON COMPOUNDS WITH SILOXANE CARBON UNITS; SYNTHESIS OF ORGANO-SILICON COMPOUNDS WITH SILAZANE-CARBON AND SILTHIANE-CARBON UNITS; CHLOROMETHYLA-TION OF ORGANOSILICON COMPOUNDS AND SYNTHESIS OF ORGANOSILICON COMPOUNDS FROM CHLOROMETHYLATED ALKYLBENZENES. Research in the Field or Organosilicon Compounds; Synthesis and Physico-Chemical Properties: Selected Articles. 19 Sep 63 [82p] 106refs FTD-TT-63-451.
Order from OTS $2.25 TT-63-11744

Unedited rough draft trans. of mono. Issledovaniya v Oblasti Kremniiorganicheskikh Soedinenii; Sintez i Fiziko-Khimicheskie Svoistva: Sbornik Statei, Moscow, 1962, p. 105-145, 156-167.

Paal and Amberger.
PROCESS FOR PREPARATION OF ORGANIC COM-POUNDS FROM MORE HYDROGEN-DEFICIENT STARTING MATERIALS. 9 Jun 62, 7p
Available on loan from SLA TT-63-20590

Trans. of German patent 346, 949, 12 Jan 22.

Pinkernelle and Kroning.
CATALYTIC OXIDATION IN LIQUID PHASE WITH AIR. I. OXIDATION OF ETHYL BENZENE TO ACETOPHENONE. Rept. from Zetko Scientific Meeting, 1941. [1963] 4p
Available on loan from SLA TT-63-18544

Condensed trans. from mono. (report) of I. G. Farbenindustrie AG, Urdingen, 30 Apr 41 (PB-563). A complete trans. is available from OTS or SLA $1.60 as TT-63-16337 [1963] [18p].

Razuvaev, G. A. and Minsker, K. S.
THE ROLE OF OXYGEN IN THE POLYMERIZATION OF VINYLIDENE CHLORIDE. [1963] 15p (figs omitted)
Order from K-H $15.00 K-H 10610 a

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 8] p. 1239-1245.

Schuster, Curt.
THE OXO SYNTHESIS. [1963] [58]p. 86 refs.
Order from SLA $5.60 TT-63-18689

Trans. of Fortschr[itte der] Chem[ischen] Forch[ung] (West Germany) 1951, v. 2, p. 311-374. (Abstract abailable)

Shuikin, N. I. and Viktorova, E. A.
CATALYTIC SYNTHESIS OF ALKYLPHENOLS. [1963] 73p
Order from K-H $73.00 K-H 10599

Trans. of #Uspekhi Khimii (USSR) 1960, v. 29, no. 10, p. 1229-1259.

Volkov, V. L., Mikheev, E. P., Anisimov, K. N., Eliseeva, L. E., and Valueva, Z. P.
PREPARATION OF CARBONYLS OF MOLYBDENUM AND TUNGSTEN [Polucheniye Karbonilov Molibdena i Vol'frama]. [1963] 9p
Order from K-H $9.00 K-H 9077

Trans. of Zhurnal Neorganicheskoi Khimii (USSR) 1958, v. 3 [no. 11] p. 2433-2436.
Another trans. is available from LC or SLA mi$1.80, ph$1.80 as TT-60-13248 [1960] [5p].

Zemlyanskii, N. N., Panov, E. M., and Kocheshkov, K. A.
THE DIALKYLTIN. [1963] 3p 9refs
Order from OTS, SLA or ETC $1.10 TT-63-20212

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1962, v. 146 [no. 6] p. 1335-1336. (Abstract available)

Ziegler, K[arl] and Kleiner, M.
POLYMERIZATION OF UNSATURATED HYDROCARBONS UNDER THE INFLUENCE OF ALKALI METALS AND ALKALI METAL ALKYLS. Pt. 3 of [Research on Alkali Organic Compounds]. [1963] 37p (figs omitted)
Order from K-H $37.00 K-H 3559 b

Trans. of [Justus Liebigs] Annalen der Chemie (Germany) 1929, v. 473, p. 57-82.

Ziegler, K[arl] Grimm, H., and Willer, R.
CONTROLLED 1, 4-POLYMERIZATION OF BUTADIENE. Pt. 15 of [Research] on Alkali Organic Compounds. [1963] 48p (figs omitted)
Order from K-H $48.00 K-H 3456 m

Trans. of [Justus Liebigs] Annalen der Chemie (Germany) 1940, v. 542, p. 90-122.

Zimakov, P. B. and Pokrovskii, V. A.
ON THE OXIDATION MECHANISM OF ALLYL ALCOHOL AND ACROLEIN. [1963] 5p 5refs
Available on loan from SLA TT-63-20521

Trans. of Akademiya Nauk SSSR. Doklady, 1948, v. 63, no. 2, p. 143-145.

Physical Chemistry

Baibuz, V. F.
CALCULATION OF EQUILIBRIUM COMPOSITIONS IN GASEOUS MIXTURES AT HIGH TEMPERATURES. [1963] [8]p.
Order from OTS, SLA, or ETC $1.10 TT-63-18749

Trans. of #Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1962, v. 36 [no. 7] p. 1401-1407. (Abstract available)

Bogdanov, G. A.
CONTRIBUTIONS TO THE THEORY OF INTERMEDIATES IN HOMOGENEOUS CATALYSIS. III. KINETICS OF THE DECOMPOSITION OF K_3CrO_8, AND SOME NEW PERCHROMATES (Novye Materialy k Teorii Promezhutochnykh Produktov v Gomogennom Katalize. III. Kinetika Raspada K_3CrO_8 i Novye Perkhromaty). May 63 [21]p. 8 refs. RTS-2270.
Order from OTS, SLA, or ETC $2.60 TT-63-23238

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1951, v. 25, no. 1, p. 61-70. (Abstract available)

Enikolopyan, N. S., Bonetskaya, A. K., and Skuratov, S. M.
THE INDUCTION PERIOD IN THE POLYMERIZATION OF ε-CAPROLACTAM AND ε_7-OENANTHOLACTAM UNDER VARIOUS CONDITIONS. Sep 63, 6p 3refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 553-558

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 12, p. 1779-1783. (Abstract available)

Gobrecht, Heinrich and Meinhardt, Oskar.
ON THE IMPEDANCE OF SEMICONDUCTOR-ELECTROLYTE INTERFACES. PT. II. THE FREQUENCY DEPENDENCE OF THE IMPEDANCE OF GERMANIUM ELECTRODES (Über die Impedanz von Halbleiter-Elektrolyt-Grenzflächen. Mitteilung II. Über die Frequenzabhangigkeit der Impedanz von Germanium-Elektroden) [1963] [14p] (foreign text included) 10refs
Order from SLA $1.60 TT- 63-18760

Trans. of Deutsche Bunsengesellschaft für Physikalische Chemie e. V., Münster. Bericht (West Germany) 1963, v. 67 [no. 2] p. 151-156.

Kolodtsev, Kh. I.
CALCULATION OF COMBUSTION OF CARBON IN FUEL BEDS (Raschet Sloebogo Goreniya Ugleroda). [1963] [11]p. (foreign text included) 4 refs. Fuel Research Station Trans. NT553; [DSIR] NLL M. 3718.
Order from OTS, SLA or ETC $1.60 TT-63-19832

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1945, v. 19, no. 12, p. 657-664. (Abstract available)

Kolodtsev, Kh. I.
DYNAMICS OF GAS FORMATION IN CARBON BEDS. [1963] 10p. (figs. omitted) 4refs, Fuel Research Station Trans. NT554; [DSIR] NLL M. 3719.
Order from OTS, SLA, or ETC $1.10 TT-63-19831

Trans. of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1945, v. 19, no. 9, p. 417-428. (Abstract available)
An abstract trans. is available from OTS or SLA $1.10 in TT-62-10844 [1962] 4p.

Korolev, G. V. and Berlin, A. A.
POLYMERIZATION IN HIGHLY VISCOUS MEDIA AND THREE-DIMENSIONAL POLYMERIZATION. III. THE MECHANISM OF AUTO-ACCELERATION IN THE INITIAL AND MIDDLE STAGES OF THE POLYMERIZATION OF POLYESTER-ACRYLATES. Sep 63, 7p 5refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 500-506

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 11, p. 1654-1659. (Abstract available)

Korolev, G. V., Berlin, A. A., and Kefeli, T. Ya.
POLYMERIZATION IN HIGHLY VISCOUS MEDIA AND THREE-DIMENSIONAL POLYMERIZATION. II. THE INITIAL STAGE OF POLYMERIZATION OF POLYESTER-ACRYLATES. Sep 63, 9p 11refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 482-490

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1520-1527. (Abstract available)

Korolev, G. V., Smirnov, B. R., and Volkhovitinov, A. B.
POLYMERIZATION IN HIGHLY VISCOUS MEDIA AND THREE-DIMENSIONAL POLYMERIZATION. IV. A STUDY OF THE RECOMBINATION OF FREE RADICALS IN POLYESTER-ACRYLATE GLASSES BY THE ELECTRON SPIN RESONANCE METHOD. Sep 63, 6p 5refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 506-511

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 11, p. 1660-1664. (Abstract available)

Kron, A. K. and Ptitsyn, O. B.
STATISTICAL THEORY OF VOLUME EFFECTS IN MACROMOLECULES. [1963] 7p. 9 refs.
Order from OTS, SLA, or ETC $1.10 TT-63-18697

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1963, v. 5, no. 3, p. 412-416. (Abstract available)

DESCRIPTORS: *Polymers, Volume, Statistical analysis *Probability, Theory, *Thermodynamics,

Laita, Z. and Jelinek, M.
THE KINETICS OF THE ANIONIC POLYMERIZATION OF CYCLIC POLYDIMETHYLSILOXANES. Sep 63, 8p 13refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 535-542

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 11, p. 1739-1745. (Abstract available)

Mitrovic, M. V.
MASS TRANSFER ONTO ANODICALLY OXIDIZED ALUMINUM UNDER CONDITIONS OF NATURAL CONVECTION. 1963, 9p 12refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 17-25)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 77-83.

Nesmeyanova, A. N., Mikheev, E. P., Anisimov, K. N., and Filimonova, N. P.
THE SYNTHESIS OF CHROMIUM HEXACARBONYL WITH THE AID OF METALLIC REDUCING AGENTS. [1963] 7p
Order from K-H $7.00 K-H 9766

Trans. of #Zhurnal Neorganicheskoi Khimii (USSR) 1959, v. 4, no. 9, p. 1958-1960.

Parini, V. P.
ORGANIC COMPLEXES WITH CHARGE MIGRATION (Organicheskie Kompleksy s Perenosom Zaryada) tr. by Richard M. Holden. Apr 63 [42]p 219refs. Emmanuel Coll. E-T-R-63-3
Order from OTS, SLA, or ETC $4.60 TT-63-23605

Trans. of #Uspekhi Khimii (USSR) 1962, v. 31, no. 7, p. 822-837.
Another trans. is available from ATS $28.00 as ATS-26P65R [1962] 18p.

Seith, W. and Wever, H.
THE MECHANISM OF ELECTROLYTIC TRANSPORT IN SOLID INTERMETALLIC PHASES. [1963] 3p
Order from K-H $3.00 K-H 6016 b

Trans. of [die] Naturwissenschaften (West Germany) 1954, v. 41, p. 447.

Sheka, Z. A.
COMPOSITIONS OF IONS IN SOLUTIONS OF ALUMINUM HALIDES AND THEIR COMPLEX COMPOUNDS. [1963] 30p
Order from K-H $30.00 K-H 3950

Trans. of Raboty po Khimii Rastvorov i Kompleksnykh Soedinenii (USSR) 1954, p. 113-131.

Skuratov, S. M., Enikolopyan, N. S., Bonetskaya, A. K., and Voevodskii, V. V.
THE MECHANISM OF POLYMERIZATION OF LACTAMS. Sep 63, 10p 13refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 543-552

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 12, p. 1770-1778. (Abstract available)

Soloukhin, R. I. and Topchiyan, M. E.
SPIN DETONATION TRAILS (Issledovanie Shleifa Spinovio Detonatsii) tr. by L. Meyer. May 61 [4]p. (2 figs. omitted) 7refs S. M. R. E. Trans. no. 4470; NLL M3384.
Order from OTS, SLA, or ETC $1.10 TT-62-23887

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1959, v. 127, no. 4, p. 772-773. (Abstract available)

Stärk, Ludwig.
ARRANGEMENT FOR ACIDITY DETERMINATION IN A HALF CELL POTENTIOMETER CIRCUIT WITH AUTOMATIC TEMPERATURE BALANCE, tr. by J. R. P. 26 June 63, 6p (figs omitted).
Order from OTS, SLA, or ETC $1.10 TT-63-23167

Trans. of German patent 693,276, cl. 42/1, gr. 3/05, to Hartmann & Braun A.G., pat. from 31 July 37, grant announced 13 June 40, pub. 5 July 40.

Sysoeva, V. V. and Rotinyan, A. L.
THE EFFECTS OF DEPOLARIZATION AND SUPERPOLARIZATION ON THE FORMATION OF AN ELECTROLYTIC Fe-Ni ALLOY. [1963] 10p.
Order from ATS $9.00 ATS-33Q71R

Trans. of #Zh[urnal] Prikl[adnoi] Khim[ii] (USSR) 1962, v. 35, no. 12, p. 2653-2661.

Toropov, N. A. and Boikova, A. I.
TRICALCIUM SILICATE AND ITS SOLID SOLUTIONS (Trekhal'tsievyi Silikat i Ego Tverdye Rastvory) tr. by H. A. Berman. [1963] [11]p. 11 refs.
Order from OTS, SLA or ETC $1.60 TT-63-23767

Trans. of mono. Novoe v Khimii i Tekhnologii Tsementa (New Developments in the Chemistry and Technology of Cement) Moscow, 1962, p. 61-66 (Soveshchaniya po Khimii i Tekhnologii Tsementa (Conference on the Chemistry and Technology of Cement) 1961. Trudy, p. 61-66). (Abstract available)

Yamamoto, Ken-ichi, Morita, Yoshiro, Kawakami, Ryosaku, and Ozawa, Toru.
REACTION OF KEROSENE ON WATER VAPOR BY MEANS OF CATALYZERS OF POLYCONSTITUENT SERIES. Pt. 1 of Reaction of Petroleum on Water Vapor. [1963] [25p] (refs omitted)
Available on loan from SLA TT-63-20475

Trans. of Kogyo Kagaku Zasshi (Japan) 1960, v. 63, no. 8, p. 1372-1376.
Another trans. is available from ATS $19.75 as ATS-67P64J [1962] 11p.

EARTH SCIENCES

ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND TECHNICAL JOURNALS NO. 335 (EARTH SCIENCE SERIES). 25 Oct 63, 18p JPRS: 21597.
Order from OTS $0.50 TT-63-41007

Consists of abstracts of articles from selected scientific and technical journals of Czechoslovakia and Hungary.

Biryukova, L. A. and Kastrov, V. G.
DIURNAL TEMPERATURE VARIATIONS IN THE STRATOSPHERE (O Sutochnom Khode Temperatury v Stratosfere) tr. by Zanis Stuberovskis. Feb 63 [18]p. 13 refs. Emmanuel Coll. E-T-R-63-2.
Order from OTS, SLA, or ETC $1.60 TT-63-23604

Trans. of Meteorologiya i Gidrologiya (USSR) 1961, no. 8, p. 3-10.

Lambor, Julian.
ORGANIZATION AND ACTIVITIES OF THE STATE INSTITUTE OF HYDROLOGY AND METEOROLOGY. 30 Oct 63, 33p JPRS: 21668.
Order from OTS $1.00 TT-63-41036

Trans. of Nauka Polska, 1963, v. 11, no. 3(45) p. 113-138.

Climatology and Meteorology

Averev, N. I. and Morskoi, G. I.
FORECASTING THE PRESSURE FIELD OVER THE NORTHERN HEMISPHERE FOR 1, 2, 3 AND 4 DAYS BY AN EXTRAPOLATION METHOD. [1963] [13]p. (figs. tables formulae omitted) 6 refs.
Trans. no. 110(M) [DSIR] NLL M. 3819.
Order from OTS, SLA, or ETC $1.60 TT-63-19743

Unedited trans. of Tsentr[alnyi] Inst[itut] Progn[ozov]. Trudy (USSR) 1960, v. 97, p. 67-81. (Abstract available)

Britaev, A. S. and Korneev, A. N.
GROWTH OF ICE CRYSTALS BY COAGULATION. [1963] [8]p (figs tables [Eng] refs omitted) 14refs Trans. no. 138(M); [DSIR] NLL M. 3791.
Order from OTS, SLA, or ETC $1.10 TT-63-19771

Unedited trans. of Tsentr[al'naya] Aerol[ogicheskaya] Obs[ervatoriya]. Trudy (USSR) 1959, no. 30, p. 73-80.

Budyko, M. I., Efimova, N. A. and others.
RADIATION BALANCE OF THE NORTHERN HEMISPHERE. 5 June 62, 7p. (figs. tables omitted) 10 refs. Trans. no. 143(M); [DSIR] NLL M. 3885.
Order from OTS, SLA, or ETC $1.10 TT- 63-19953

Unedited trans. of A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geogr[aficheskaya] 1961, no. 1, p. 3-12. (Abstract avaialble)
Another trans. is available from OTS or SLA $1.60 as 63-13880, FTD-TT-62-1340, 7 Nov 62 [18]p.

Chou, Hsiu-chi.
STATISTICAL THEORY OF THE MICROPHYSICAL MECHANISMS OF FORMATION OF RAIN IN WARM CLOUDS. 31 Oct 63, 17p 21refs JPRS: 21691.
Order from OTS $0.50 TT-63-41046

Trans. of Scientia Sinica (Chinese People's Republic) 1963, v. 12, no. 8, p. 1197-1211 (originally pub. in Ch'i Hsiang Hsüeh Pao (Chinese People's Republic) 1963, v. 33, no. 1, p. 97-108). (Abstract available)

Dobrokhotov, Yu. S.
DIFFERENTIAL BAROGRAPH WITH PHOTOGRAPHIC RECORDING OF THE READINGS. 28 June 63 [18]p. 4 refs. FTD-TT-63-535.
Order from OTS, SLA or ETC $1.60 TT-63-23634

Unedited rough draft trans. of [Akademiya Nauk SSSR]. Institut Fiziki Zemli. Trudy, 1962, no. 24(191) p. 116-123. (Abstract available)

Drogaitsev, D. A.
FORECASTING PRECIPITATION ON VIRGIN LANDS IN WESTERN SIBERIA AND KAZAKHSTAN. [1963] [14p] (figs tables omitted) 8refs Trans. no. 65; [DSIR] NLL M. 3833.
Available from OTS on loan only TT-63-19914

Unedited trans. of Ak[ademiya] Nauk SSSR. Sibirsk[oe] Otdel[enie]. Izv[estiya] 1958, no. 11, p. 83-94.

Govorukha, L. S. and Kirpichev, E. F.
FIRST RESULTS OF STORM-MEASURING OBSERVATIONS WITH STORM-METER "CYCLON". [1963] [6]p (figs omitted)
Order from OTS, SLA, or ETC $1.10 TT-63-15735

Trans. from [Sovetskaya Antarkticheskaya Ekspeditsiya. Informatsionnyi Byulleten'] 1961, no. 26.

Gritsenko, M. V. and Dmitrieva, Yu. N.
THE SELECTION OF ANALOGUES. [1963] [11]p. 6 refs. Trans. no. 99; [DSIR] NLL M. 3825.
Order from OTS, SLA, or ETC $1.60 TT-63-19739

Unedited trans. of Tsent[ral'nyi] Inst[itut] Prog[nozov]. Trudy (USSR) 1959, v. 87, p. 51-56. (Abstract available)

Morozova, T. P.
FLUCTUATION OF THE SOUTHERN BOUNDARY OF POLAR ICE IN THE LAPTEV SEA (Kolebanie Yuzhnoi Granitsy Mnogoletnykh L'dov v More Laptevykh) tr. by M. Slessers. 1963 [11]p 2refs NOO Trans-126
Order from OTS, SLA, or ETC $1.60 TT-63-23138

Trans. of Problemy Arktiki i Antarktiki (USSR) 1959, no. 1, p. 5-10. (Abstract avaialble)

Morskoi, G. I.
ON THE ZONAL CIRCULATION OF THE ATMOSPHERE. [1963] [31]p. (figs. formulae footnotes tables omitted). Trans. no. 87; [DSIR] NLL M. 3752.
Order from OTS, SLA or ETC $3.60 TT-63-19805

Unedited trans. of Tsent[ralnyi] Inst[itut] Prog[nozov]. Trudy (USSR) 1959, v. 85, p. 40-63. (Abstract available)

Pchelko, I. G. and Borovikov, A. M.
RESULTS OF REDUCTION OF OBSERVATIONS OF THE MICRO-STRUCTURE OF CLOUDS WITH ICE ACCRETION AND WITHOUT ICE ACCRETION ON AIRCRAFT. [1963] [12]p (tables omitted) Trans. no. 105; [DSIR] NLL M. 3755.
Order from OTS, SLA, or ETC $1.60 TT-63-19802

Unedited trans. of Tsent[ral'nyi] Inst[itut] Prog[nozov]. Trudy (USSR) 1959, v. 80, p. 64-78.

Rafailova, H. H.
FORECASTING THE PRESSURE FIELD FOR EACH OF THREE DAYS. [1963] [50]p (figs tables omitted) 11refs. Trans. no. 109(M) [DSIR] NLL M. 3818.
Order from OTS, SLA, or ETC $4.60 TT-63-19745

Unedited trans. of Tsent[ral'nyi] Inst[itut] Progn[ozov]. Trudy (USSR) 1960, v. 97, p. 3-46. (Abstract available)

Romanov, Yu. A.
ON THE PRECISION OF WIND FIELD CALCULATION ABOVE THE SEA ACCORDING TO THE ISOBAR FIELD (O Tochnosti Raschet Polya Vetra nad Morem po Polyu Isobar) tr. by M. Slessers. [1963] [10]p. 6 refs. NOO Trans-190.
Order from OTS, SLA or ETC $1.10 TT-63-19728

Trans. of Okeanologiya (USSR) 1962, v. 2, no. 1, p. 139-143. (Abstract available)

Romov, A. I.
INVESTIGATION OF FEATURES OF THE INFLUENCE OF DYNAMIC AND THERMAL FACTORS ON CHANGE OF PRESSURE AND ON VERTICAL MOTION. [1963] [40]p. (figs. tables omitted) 10 refs. Trans. no. 83; [DSIR] NLL M. 3750.
Order from OTS, SLA or ETC $3.60 TT-63-19807

Unedited trans. of Ukr[ainskii] Nauc[hno]-Issled[ovatelskii] Gidrometeo[rologicheskii] Inst[itut]. Trudy (USSR) 1959, v. 11, p. 93-142. (Abstract available)

Shlyachov, V. I.
SNOW-STORMS OBSERVATION METHODS IN THE ANTARCTICA. [1963] 3p (figs omitted)
Order from OTS, SLA, or ETC $1.10 TT-63-15734

Trans. from [Sovetskaya Antarkticheskaya Ekspeditsiya. Informatsionnyi Byulleten'] 1960, no. 20.

Shtabova, A. I.
INVESTIGATION INTO THE SYNOPTICO-CLIMATIC FEATURES OF MARCH AND THE POSSIBILITY OF PREDICTING THE MONTHLY MEAN TEMPERATURE ANOMALY. [1963] [21]p (figs tables omitted)
Trans. no. 122(M); [DSIR] NLL M. 3815.
Order from OTS, SLA, or ETC $2.60 TT-63-19748

Unedited trans. of Tsentr[al'nyi] Inst[itut] Prog[nozov]. Trudy (USSR) 1960, v. 92, p. 13-30.

Geodesy

Kolmogorov, V. G.
THE CALCULATION OF PLUMB-LINE DEFLECTIONS ON THE BASIS OF GRAVITY ANOMALIES. 29 Oct 63 12p 2refs JPRS: 21648.
Order from OTS $0.50 TT-63-41031

Trans. of Geologiya i Geofizika (USSR) 1963, no. 8, p. 100-106. (Abstract available)

Lozinskaya, A. M. and Mindlin, L. E.
AN EXPERIMENT IN RADIOGEODETIC POSITION CORRELATION IN DETAILED AEROMAGNETIC SURVEYING (Opyt Radiogeodezicheskoi Privyazki Detal'noi Aeromagnitnoi S'emki). Aug 62, 6 refs. RTS 2097.
Order from OTS or SLA $1.60 TT-62-32482

Trans. of Prikladnaya Geofizika (USSR) 1960, no. 24, p. 213-221.

Podobedov, N. S.
STUDY OF A MATHEMATICAL BASE OF MAPS TO BE REVISED, AND THE TRANSITION TO THE SYSTEM OF COORDINATES OF THE YEAR 1942 (Izuchenie Matematicheskoi Osnovy Obnovlyaemykh Kart i Perekhod k Sisteme Koordinat 1942 G.) tr. by Henry Tomas. Feb 62 [15]p ACIC-TC-589.
Order from OTS, SLA, or ETC $1.60 TT-63-19247

Trans. of mono. Topograficheskoe Kartigrafirovanie (Topographic Cartography) [Moscow] 1962, p. i-ii and sect. 58, p. 238-243.

Geology

UNDERGROUND COMMUNICATIONS: ANNOTATED BIBLIOGRAPHY OF SOVIET-BLOC LITERATURE 1960-62 (PRELIMINARY). Report on AID Work Assignment no. 37. 26 July 63 [22]p 54refs AID Rept. B-63-99; NASA N63-19311.
Order from OTS, SLA, or ETC $2.60 TT-63-23534

Balashov, Yu. A.
THE DIFFERENTIATION OF RARE-EARTH ELEMENTS IN THE MAGMATIC PROCESS (Differentsiatsiya Redkozemel'nykh Elementov v Magmaticheskom Protsesse). Oct 63, 21p 22refs NASA Technical Trans. F-179; N63-22602.
Order from OTS $0.75 TT-63-11729

Trans. of mono. Khimiya Zemnoi Kory [Chemistry of the Earth's Crust, Moscow] 1963, p. 352-365 (Trudy Geokhimicheskoi Konferentsii, Posvyashchennoi Stoletiyu so Dyna Rozhdeniya Akademiya V. I. Vernadskogo, v. 1). (Abstract available)

Egoyan, V. L.
FAUNAS OF THE UPPER CRETACEOUS DEPOSITS: GENERA INOCERAMUS, SCAPHITES AND BARROISICERAS, tr. by Ivan Mittin. 1963 [50]p (figs plates omitted) 15refs
Order from OTS, SLA, or ETC $4.60 TT-63-19588

Trans. of mono. Verkhnemelovye Otlozheniya Yugo-Zapadnoi Chasti Armyanskoi SSR (The Upper Cretaceous Deposits of the Southwestern part of the Armenian SSR) Erevan, 1955, p. 195-214, 245-254.

Gainanov, A.G. and Solov'ev, O. N.
THE NATURE OF THE MAGNETIC ANOMALIES IN THE TRANSITION REGION FROM THE ASIATIC CONTINENT TO THE PACIFIC OCEAN. 4 Nov 63, 4p 4refs JPRS: 21715.
Order from OTS $0.50 TT-63-41055

Trans. of Akademiya Nauk SSSR. Doklady, 1963, v. 151, no. 6, p. 1399-1401. (Abstract available)

Glumov, I. F. and Dobrynin, V. M.
VARIATION IN ELECTRICAL RESISTIVITY OF WATER-SATURATED ROCKS UNDER THE INFLUENCE OF ROCK AND FORMATION PRESSURE. [1963] 15p.
Order from ATS $10.75 ATS-64Q71R

Trans. of Prikl[adnaya] Geofiz[ika] (USSR) 1962, no. 33, p. 190-204.

Kiparisova, L. D. and Popov, Yu. N.
SUBDIVISION OF THE LOWER (SERIES OF THE) TRIASSIC SYSTEM (INTO STAGES) (Raschlenenie Nizhnego Otdela Tryasovoi Sistemy na Yarusy) tr. by Ivan Mittin. 1963 [14]p. 20 refs.
Order from OTS, SLA, or ETC $1.60 TT-63-19589

Trans. of Akademiya Nauk SSSR. Doklady, 1956, v. 109, no. 4, p. 842-845.

Miklukho-Maklai, A. D.
THE BIOSTRATIGRAPHIC SUBDIVISION OF THE UPPER PALEOZOIC IN THE KARA-CHATYR MOUNTAIN RIDGE (SOUTH FERGHANA) (Biostratigraficheskoe Razdelenie Verkhnego Paleozoya Khr. Kara-Chatyr, Yuzhnaya Fergana) tr. by Ivan Mittin. 1963 [14]p. 11 refs.
Order from OTS, SLA or ETC $1.60 TT-63-19592

Trans. of Akademiya Nauk SSSR. Doklady, 1956, v. 108, no. 6, p. 1152-1155. (Abstract available)

Ozonkowa, H.
THE GENUS UMBELLINA (FORAMINIFERA): AN INDEX FOSSIL IN THE DEVONIAN OF THE HOLY CROSS MOUNTAINS. [1963] 8p.
Order from ATS $12.40 ATS-51Q70P

Trans. of Polsk[ie] Towarz[ystwo] Geol[ogiczne]. Rocznik, 1962, v. 32, no. 1, p. 107-114.

Pechuk, I. M.
THE EFFECT OF THE WATER CONTAINED IN STRATA AND COAL SEAMS ON THE GASSINESS OF THE LATTER (O Vliyanii Obvodnennosti Porod i Ugol'nykh Plastov na Gazonosnost' Poslednikh) tr. by L. Meyer. May 62 [4]p. 7 refs. S. M. R. E. Trans. no. 4705; [DSIR] NLL M. 3853.
Order from OTS, SLA, or ETC $1.10 TT-63-19898

Trans. of Izvest[iya] Vyssh[ikh] Uchebn[ykh] Zavedenii. Gornyi Zhurnal (USSR) 1962, v. 5, no. 3, p. 38-39.

Starik, I. E. and Arslanov, Kh. A.
NEW DATA ON THE AGE OF SOME QUATERNARY DEPOSITS OF THE EUROPEAN PART OF THE U.S.S.R., DETERMINED BY MEANS OF THE RADIOCARBON METHOD (Novye Dannye o Vozraste Nekotorykh Chetvertichnykh Otlozhenii Evropeiskoi Chasti SSSR, Opredelennom Radiouglerodnym Metodom) tr. by Ivan Mittin. 1963 [14]p. (foreign text included) 13 refs.
Order from OTS, SLA, or ETC $1.60 TT-63-19599

Trans. of Akademiya Nauk SSSR. Komissiya po Opredeleniyu Absolyutnogo Vozrasta Geologicheskikh Formatsii. Byulleten', 1962, no. 5, p. 43-47.

Mineralogy

Chang, P'ei-shan.
AESCHYNITE MINERALS. 24 Oct 63, 16p
JPRS: 21587.
Order from OTS $2.25 in TT-63-31998 (p. 29-44)

Trans. of Ti Chih Hsüeh Pao (Chinese People's Republic) 1963, v. 43, no. 1, p. 90-96. (Abstract available)
DESCRIPTORS: *Minerals, *Niobium compounds, *Yttrium compounds, Radioactivity, Crystal structure, Chemical analysis,

Getseva, R. V. and Savel'eva, K. T.
HANDBOOK FOR IDENTIFICATION OF URANIUM MINERALS, tr. by Irene Wrgechtch White. 1957 [264]p. (figs. omitted). NP-tr-537.
Order from OTS, SLA, or ETC $17.00 TT-63-23301

Trans. of mono. Rukovodstvo po Opredeleniyu Uranovykh Mineralov, Moscow, 1956 [259p.]. (Abstract available)
DESCRIPTORS: *Uranium, *Minerals, *Handbooks, Identification, *Classification, Physical properties, Chemical properties, Geochemistry,

Rabkin, M. I., Krutoyarskii, M. A., and Milashev, V. A.
CLASSIFICATION AND NOMENCLATURE OF YAKUTIAN KIMBERLITES (Klassifikatsiya Kimberlitovykh Porod Yakutii i Ikh Nomenklatura). May 63 [28]p 13refs RTS-2233
Order from OTS, SLA, or ETC $2.60 TT-63-23252

Trans. of [Nauchno]-Issledovatel'skii Institut Geologii Arktiki. Trudy (USSR) 1962, v. 121, p. 154-164. (Abstract available)
DESCRIPTORS: *Rock (Geology), *Petrology, Classification, Geology, Geological survey,

Zhabin, A. G. and others.
NEW DATA ON FERSMITE, tr. by J. Luezywek. 1962 [9]p. (figs omitted) [DSIR] NLL M. 3780.
Order from OTS, SLA, or ETC $1.10 TT-63-19778

Abridged trans. of [Vsesoyuznoe Mineralogicheskoe Obshchestvo. Zapiski] (USSR) 1961, v. 90, no. 3, p. 270-280.

Oceanography

Bodganov, K. T. and Magarik, V. A.
COMPUTATION OF THE S_2 TIDAL COMPONENT FOR THE PACIFIC OCEAN WATER AREA ON THE BESM-2 ELECTRONIC COMPUTER. 1 Nov 63, 6p 5refs JPRS: 21703.
Order from OTS $0.50 TT-63-41050

Trans. of Akademiya Nauk SSSR. Doklady, 1963, v. 151, no. 6, p. 1315-1318.

Brodskaya, N. G.
BOTTOM DEPOSITS AND PROCESSES OF SEDIMENT FORMATION IN THE ARAL SEA. 14 Aug 61 [153p] 63refs JPRS: 9885.
Order from OTS, SLA, or ETC $11.50 TT-61-27674

Trans. of Akademiya Nauk SSSR. Institut Geologicheskikh Nauk, 1952 [no. 115, Geologicheskaya Seriya, no. 57]. (Abstract available)

Filippov, D. M.
ON THE HORIZONTAL CIRCULATION OF BOTTOM WATERS IN THE BLACK SEA (O Gorizontal'noi Tsirkulyatsii Glubinnykh Vod v Chernom More) tr. by M. Slessers. 1963 [15]p. 4 refs. NOO Trans-188.
Order from OTS, SLA or ETC $1.60 TT-63-19726

Trans. of [Akademiya Nauk SSSR]. Institut Okeanologii. Trudy, 1961, v. 53, p. 112-122. (Abstract available)

Popov, E. G.
SHORT-TERM FORECASTS OF ICE FORMATION AND BREAKUP IN RIVERS (Kratkosrochnye Prognozy Zamerzaniya i Vskrytiya Rek) tr. by M. Slessers. 1963 [46]p. NOO Trans-160.
Order from OTS, SLA, or ETC $4.60 TT-63-19725

Trans. of mono. Gidrologicheskie Prognozy (Hydrological Forecasts) Leningrad, 1957, chap. 11, p. 391-426. (Abstract available)

Starik, I. E. and Zharkov, A. P.
THE APPLICATION OF THE RADIOCARBON METHOD TO INVESTIGATIONS OF MODERN SEDIMENTATION PROCESSES (Primenenie Radioglerodnogo Metoda k Issledovaniyu Protsessov Sovremennogo Osadkonakopleniya) tr. by Ivan Mittin. 1963 [19]p. (foreign text included) 15 refs.
Order from OTS, SLA, or ETC $1.60 TT-63-19598

Trans. of Akademiya Nauk SSSR. Komissiya po Opredeleniyu Absolyutnogo Vozrasta Geologicheskikh Formatsii. Byulleten', 1962, no. 5, p. 35-42. (Abstract available)

ENGINEERING

ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND TECHNICAL JOURNALS NO. 334 (ELECTRONICS ENGINEERING AND SPACE RESEARCH SERIES). 25 Oct 63, 10p JPRS: 21596.
Order from OTS $0.50 TT-63-41006

Consists of abstracts of articles from selected scientific and technical journals of Hungary and Rumania.

USSR SCIENTIFIC ABSTRACTS: ELECTRONICS AND ENGINEERING NO. 5. 6 Nov 63, 67p JPRS: 21762.
Order from OTS $1.75 TT-63-41082

Consists of abstracts of articles from USSR scientific and technical journals.

Bragin, V. A.
SELECTION OF NUMBER OF WATER PASSES IN SURFACE CONDENSERS (Vybor Chisla Khodov Vody u Poverkhnostnykh Kondensatorov). [1963] [6]p 6refs [DSIR] NLL M.3697.
Order from OTS, SLA, or ETC $1.10 TT-63-23396

Trans. of Energomash[inostroenie] (USSR) 1961, v. 7, no. 11, p. 39-40.

Chemical Engineering

IMPROVEMENTS IN TUBULAR FLUID SEPARATORS, tr. by G. E. 20 June 63, 6p. (fig. omitted).
Order from OTS, SLA, or ETC $1.10 TT-63-23164

Trans. of French patent 1,106,384, group 14, cl. 6, to Dr. C. Otto & Co., G.m.b.h., of Germany, appl. 9 Aug 54, granted 20 July 55, pub. 19 Dec 55 (appl. filed in Germany 10 Aug 53 by applicant). (Abstract available)

USSR INDUSTRIAL DEVELOPMENT: SOVIET CHEMICAL MACHINE BUILDING NO. 33. 18 Oct 63, 20p JPRS: 21513.
Order from OTS $0.75 TT-63-31969

Consists of 8 articles and 7 newsbriefs from 1963 issues of Russian journals and newspapers. (Abstract available)

Egorov, N. N., ed.
OXIDISING METHODS FOR THE LIQUID REMOVAL OF HYDROGEN SULPHIDE: THE PEROX PROCESS, tr. by D. L. Toft. 10 May 62, 3p. [DSIR] NLL M.3875.
Order from OTS, SLA, or ETC $1.10 TT-63-19960

Trans. of mono. [Ochistka ot Sery Koksoval'nogo i Drugikh Goryuchikh Gazov] (The Desulphurization of Coke-Oven and Other Fuel Gases) 2 ed., Moscow, 1960, pt. 2, chap. 7, p. 96-98.

Egorov, N. N., ed.
THE REMOVAL OF ORGANIC SULPHUR COMPOUNDS: CONTACT-ABSORPTION PURIFICATION, tr. by D. L. Toft. 30 Apr 62 [19]p. (figs. omitted) 10 refs. [DSIR] NLL M.3874.
Order from OTS, SLA, or ETC $1.60 TT-63-19961

Trans. of mono. [Ochistka ot Sery Koksoval'nogo i Drugikh Goryuchikh Gazov] (The Desulphurization of Coke-Oven and Other Fuel Gases) 2 ed., Moscow, 1960, pt. 4, chap. 20, p. 254-273.

Munakata, E.
INTERNALLY HEATED TYPE OF HIGH PRESSURE REACTION COLUMN (ENGINEERING MEASURES TAKEN TO PERFECT THE INTERNALLY HEATED TYPE OF REACTION COLUMN FOR THE HYDROGENATION OF COAL). [1963] 11p.
Order from ATS $17.75 ATS-50Q70J

Trans. of mono. Saikin no Kagaku Kogyo (Modern Chemical Industry) [Japan] 1956, p. 133-147.

Pol'kin, S. I.
ATTACHMENT OF COPPER SULPHATE TO CASSITERITE. June 63 [7]p. RTS 2107.
Order from OTS, SLA, or ETC $1.10 TT-63-23219

Trans. of mono. Flotatsiya Rud Redkikh Metallov i Olova (Flotation of Ores of Rare Metals and Tin) [Moscow] 1960, p. 254-258.

Shpital'nik, S. N.
MEASUREMENT OF TEMPERATURES WITHIN THE COKE MASS BY BAUM'S METHOD, tr. by R. Hennefeld. [1963] [8]p Trans. no. CRL/T-969; [DSIR] NLL M.3876
Order from OTS, SLA, or ETC $1.10 TT-63-19959

Trans. of Koks i Khimiya (USSR) 1939, no. 9, p. 27-29.

Spiro, N. S.
MAGNESIUM OXIDE FROM NATURAL BRINES. 26 Feb 47, 6p
Available on loan from SLA TT-63-18571

Trans. of Ogneupory (USSR) 1946 [v. 11] no. 6, p. 35-37.

Yamada, T., Iwata, T. and others.
CRYSTAL GROWTH IN TWO-STEP PHOSPHATE DECOMPOSITION. Pt. 4 of Study of Gypsum Obtained as a By-Product in the Phosphoric Acid Process. [1963] 10p.
Order from ATS $12.85 ATS-43Q71J

Trans. of Sekko to Sekkai (Japan) 1959, no. 40, p. 337-342.

Yamada, T., Koike, N. and others.
DECOMPOSITION CONDITIONS AND FORM OF GYPSUM. Pt. 5 of Study of Gypsum [obtained as a By-Product in the Phosphoric Acid Process]. [1963] 8p.
Order from ATS $12.25 ATS-45Q71J

Trans. of Sekko to Sekkai (Japan) 1959, no. 42, p. 465-469.

Yamada, T., Muchi, I. and others.
STUDIES ON THE MANUFACTURE OF PHOSPHORIC ACID BY THE FLUIDIZATION METHOD: CRYSTALLIZATION OF GYPSUM (PRELIMINARY REPORT). [1963] 5p.
Order from ATS $8.50 ATS-42Q71J

Trans. of Sekko to Sekkai (Japan) 1957, no. 27, p. 1315-1318.

Yamada, T., Sato, K., and Nagai, S.
CRYSTAL SIZE AND EASE OF FILTRATION. Pt. 2 of Study of Gypsum Obtained as By-Product in the Phosphoric Acid Process. [1963] 10p.
Order from ATS $12.00 ATS-44Q71J

Trans. of Sekko to Sekkai (Japan) 1957, no. 26, p. 1269-1275.

Civil Engineering

TECHNICAL CONCLUSIONS OF THE FIFTH SESSION AT VIENNA, APR 59. [1961] [51p]
Order from SLA $5.60 61-10139

Trans. of [Comité Européen du Béton, Paris. Bulletin d'Information] (France) n.d., no. 19. (Abstract (Abstract available)

Chang, Shen-yu abd Ch'en, Yu-ch' eng.
ON CERTAIN PROBLEMS OF SAFETY IN THE DESIGN OF REINFORCED CONCRETE STRUCTURES. 20 Sep 63, 19p JPRS: 21166.
Order from OTS $1.25 in TT-63-31800 (p. 1-19)

Trans. of T'u Mu Kung Ch'eng Hsüeh Pao (Chinese People's Republic) 1963 [v. 10] no. 1, p. 32-36. (Abstract available)

Chu, Chi-ch'eng.
SCIENTIFIC CONFERENCE ON THE PROBLEM OF EARTHQUAKE RESISTANCE OF BUILDINGS [HARBIN, 19-26 NOV 62]. 20 Sep 63, 7p JPRS: 21166.
Order from OTS $1.25 in TT-63-31800 (p. 20-26)

Trans. of T'u Mu Kung Ch'eng Hsüeh Pao (Chinese People's Republic) 1963 [v. 10] no. 1, p. 95-96.

Lyalin, I. M.
EXPERIMENTAL STUDIES OF THE BEHAVIOR OF REINFORCED CONCRETE BEAMS WITH RECTANGULAR CROSS-SECTION SUBJECTED TO THE COMBINED ACTION OF TRANSVERSE FORCE, FLEXURAL AND TORSIONAL MOMENT. [1963] 24p
Order from OTS, SLA, or ETC $2.60 TT-63-20310

Trans. of Akademiya Stroitel'stva i Arkhitektury SSSR. Institut Betona i Zhelezobetona, Perovo. Trudy, 1959, v. 5, p. 54-77.

Stein, Bernard.
OPERATION AND EQUIPMENT OF A CONCRETE PLANT PRECASTING LARGE PANELS FOR HOUSING CONSTRUCTION. [1963] 11p. (figs. refs. omitted).
Order from SLA $1.60 TT-63-18500

Trans. of Beton Herstellung Verwendung (West Germany) 1962, v. 12, no. 12, p. 545-552. (Abstract available)

Electrical and Electronic Engineering

COMMUTATOR TUBE, tr. by J. R. P. 29 Aug 63, 23p. (figs omitted).
Order from OTS, SLA, or ETC $2.60 TT-63-23772

Trans. of French patent 1,186,897, gr. 12, cl. 4, internat. cl. H01j, to Compagnie Française Thomson-Houston, appl. filed 26 Mar 57, granted 2 Mar 59, pub. 3 Sep 59. (Abstract available)

DEFENSE OF DISSERTATIONS. 18 Oct 63, 6p JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 227-232)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 210-211. (Abstract available)

DESCRIPTORS: *Ionosphere, Ionospheric disturbances, Motion, Ionospheric propagation, Electrical inpedance, Microwave oscillators, Spectrum analyzers.

NEWS OF HIGHER EDUCATIONAL INSTITUTIONS, MINISTRY OF HIGHER AND SECONDARY SPECIALIZED EDUCATION USSR, RADIO ENGINEERING SERIES, 1963, VOL. 6, NO. 2. 18 Oct 63, 238p JPRS: 21504.
Order from OTS $3.50 TT-63-31965

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 117-213.

THERMOELECTRIC SEMICONDUCTOR COOLING DEVICES. 1 Aug 63 [11p] (figs omitted). FTD-TT-63-692.
Order from OTS, SLA, or ETC $1.60 TT-63-24024

Unedited rough draft trans. of mono. Maschpriborintorg, Moscow, n.d., p. 3-11. (Abstract available)

Ablyazov, V. S.
A SUPERHETERODYNE MEASURING RECEIVER. 13 June 63 [5]p. FTD-TT-62-1124; AD-409 306.
Order from OTS, SLA, or ETC $1.10 TT-63-23102

Unedited rough draft trans. of Soviet patent 142706 (671331/26) 27 June 60. (Abstract available)

Anan'eva, A. A.
DISPLACEMENT OF THE RESONANCE FREQUENCIES OF A PLANE PIEZOELECTRIC GENERATOR ON COUPLING TO AN ACTIVE LOAD. 14 May 62, 5p. 2 refs. [Trans] T.1394; [DSIR] NLL M. 8886.
Order from OTS, SLA, or ETC $1.10 TT-63-15205

Trans. of #Akusticheskii Zhurnal (USSR) 1957, v. 3, no. 3, p. 282-285.

Borisov, V.
THE POWER OF INVISIBLE WAVES. 5 Nov 63, 9p JPRS: 21726.
Order from OTS $0.50 TT-63-41062

Trans. of Znanie-Sila (USSR) 1963 [v. 38] no. 8, p. 19-21. (Abstract available)

Chashnik, M. Z. and Finkel'shtein, S. M.
CONCERNING THE CALCULATION OF THE TRANSFER COEFFICIENT OF A STAGE OF DIRECTIONAL COUPLERS. 18 Oct 63, 16p 5refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 109-124)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 166-172. (Abstract available)

Fel'dman, V. A.
RECIRCULATOR WITH QUANTIZATION. 18 Oct 63, 8p 4refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 186-193)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 197-199. (Abstract available)

Guttsait, E. M. and Debelov, D. T.
MEASUREMENT OF THE ADMITTANCES OF ELECTRONIC TWO-PORTS IN THE MICROWAVE RANGE. 18 Oct 63, 18p 3refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 146-163)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 182-190. (Abstract available)

Ivanchenko, O. I.
A BOLTED BUSBAR CONNECTION. [1963] 11p. (figs. omitted) 6 refs. [DSIR] NLL M. 3694.
Order from OTS, SLA, or ETC $1.60 TT-63-23393

Trans. of Elek[tricheskie] Stantsii (USSR) 1961, v. 32, no. 8, p. 58-62.

Klovskii, D. D.
CONCERNING PROBLEMS OF INTERFERENCE IMMUNITY OF DIVERSITY RECEPTION IN INTERMITTENT-COMMUNICATION SYSTEMS. 18 Oct 63, 7p 1ref JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 179-185)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 195-196. (Abstract available)

Kobtsev, Yu. D.
SEMICONDUCTOR THERMORESISTANCES FOR A WIDE TEMPERATURE RANGE. 18 Oct 63, 9p 5refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 170-178)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 192-194. (Abstract available)

Korsunskii, A. A. and Razumnov, I. G.
A THICKNESS MONITOR FOR THIN FILMS OBTAINED BY VACUUM SPRAYING. 7 Aug 63 [21p] FTD-TT-62-1863.
Order from OTS $0.75 TT-63-11740

Unedited rough draft trans. of mono. Indikator Tolshchiny Tonkikh Sloev, Poluchaemykh Metodom Vakuumnogo Raspyleniya Materialov, Moscow, 1961, 14p. (Abstract available)

Koz'ma, A. A.
THE PROTECTION OF TRANSFORMER INSULATION FROM HUMIDIFICATION AND THE STABILIZATION OF TRANSFORMER OIL PROPERTIES. [1963] [8]p 2refs [DSIR] NLL M.3695.
Order from OTS, SLA, or ETC $1.10 TT-63-23394

Trans. of Elek[tricheskie] Stantsii (USSR) 1961 [v. 32] no. 11, p. 76-79.

Kuznetsov, F. K.
ON THE MEASUREMENT OF THE TEMPERATURE OF A p-n JUNCTION OF A TRANSISTOR. 18 Oct 63, 21p 11refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 125-145)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 173-181. (Abstract available)

Markovich, I. M. and Teitelbaum, V. N.
ECONOMIC DESPATCHING OF REAL POWER IN A HYDRO-THERMAL POWER SYSTEM. [1963] [5p] 1ref C. E. Trans. 2638.
Order from OTS, SLA, or ETC $1.10 TT-63-23960

Trans. of Elektrichestvo (USSR) 1962, no. 1, p. 10-11. (Abstract available)

Nakhmanson, R. S.
CALCULATION OF RC VOLTAGE AND POWER AMPLIFIER USING NONLINEAR CAPACITORS. 18 Oct 63, 21p 5refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 88-108)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 156-165. (Abstract available)

Petrenko, A. I.
FUNCTIONAL CONVERTERS FOR TWO-DIMENSIONAL GRAPHIC REPRESENTATIONS. 18 Oct 63, 22p 14refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 23-44)

Trans. of Izvestiya Vysshikh Ucchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 127-135. (Abstract available)

Polulyakh, K. S.
ERRORS AND LIMITS OF THE MEASUREMENT OF L AND C BY THE RESONANCE METHOD. 18 Oct 63, 9p 2refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 199-207)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 200-203.

Proshkin, E. G., Khoroshailo, E. S., and Zelinskii, A. V.
RADIO REMOTE CONTROL SYSTEMS. 18 Oct 63, 9p 2refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 218-226)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 207-209. (Abstract available)

Puchkovskii, V. V. and Glushkov, B. P.
SEASONAL VARIATIONS IN THE CHARACTERISTICS OF TRANSFORMER INSULATION. [1963] 6p. 2 refs. [DSIR] NLL M. 3693.
Order from OTS, SLA or ETC $1.10 TT-63-23392

Trans. of Elek[tricheskie] Stantsii (USSR) 1961 [v. 32] no. 11, p. 73-76. (Abstract available)

Skitaltsev, V. S.
TO-3 REMOTE DISCONNECTION DEVICE. [1962] [10]p. 5refs. C. E. Trans. 2602; [DSIR] NLL M. 8899.
Order from OTS, SLA, or ETC $1.10 TT-63-15191

Trans. of Elekt[richeskie] Stantsii (USSR) 1962, v. 33, no. 1, p. 60-64.

Sovetov, N. M.
SLOW-WAVE SYSTEM IN THE FORM OF A LINE WITH RINGS. 18 Oct 63, 10p 4refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 208-217)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 204-206. (Abstract available)

Yashkin, A. Ya. and Golubev, A. N.
BANDWIDTH OF π-WAVEGUIDE. 18 Oct 63, 16p 4refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 71-87)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 148-155. (Abstract available)

Zav'yalov, A. S. and Kazantseva, E. A.
SURFACE-WAVE ANTENNA WITH BROAD BEAM ROCKING. 18 Oct 63, 5p 3refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 194-198)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 199-200.

Zinke, Otto.
FUNDAMENTALS OF THE DISTRIBUTION OF CURRENT AND VOLTAGE ON ANTENNAS. [1963] [41p] 9refs
Order from SLA $4.60 TT-63-20356

Trans. of Archiv für Elektrotechnik (Germany) 1941, v. 35, p. 67-84. (Abstract available)

Ordnance, Missiles, and Satellite Vehicles

Einasto, Ya. E. and Kutusov, S. A.
DETERMINING EPHERMERIDES OF MAN-MADE EARTH SATELLITES AT POINT OF RAPPROCHEMENT. 14 June 63 [15]p. 6 refs. FTD-TT-63-545.
Order from OTS, SLA, or ETC $1.60 TT-63-23644

Unedited rough draft trans. of Byulleten' Stantsii Opticheskogo Nablyudeniya Iskusstvennykh Sputnikov Zemli (USSR) 1960, no. 10[20] p. 12-23.

Gambu, Jacques.
FOR THE EXPLORATION OF THE UPPER ATMOSPHERE: C. N. E. T. SUD-AVIATION ROCKETS.
2 Feb 62 [17]p. FTD-TT-61-205; AD-271 855.
Order from OTS or SLA $1.60 TT-62-32342

Trans. of Aviation [sic] 1961, no. 1, Aug, p. 19-23.

Illarionov, V. F. and Shkadov, L. M.
THE TURN OF THE CIRCULAR ORBITAL PLANE FOR THE ARTIFICIAL SATELLITE, tr. by A. Philips. Feb 62 [12]p. 1ref ACIC TR-592.
Order from OTS, SLA, or ETC $1.60 TT-63-19245

Trans. of #Prikladnaya Matematika i Mekhanika (USSR) 1962, v. 26 [no. 1, p. 15-21]. (Abstract available)

Merkulov, I.
THIS IS HOW IT ALL BEGAN. 17 July 63 [10]p. FTD-TT-63-612.
Order from OTS, SLA or ETC $1.10 TT-63-23725

Unedited rough draft trans. of Znanie-Sila (USSR) 1962 [v. 37] no. 9, p. 4-6. (Abstract available)

Vasil'ev, M. N.
THE BALLISTIC (ROCKET) STRADDLED THE TARGET. 26 July 63 [6]p. FTD-TT-63-609.
Order from OTS, SLA or ETC $1.10 TT-63-23727

Unedited rough draft trans. from Pravda USSR [Moscow] 1963, no. 48, 17 Feb, p. 4.

Sanitation and Safety Engineering

Avdonin, A. T. and Yakubova, R. A.
STUDIES IN SANITATION OF DRAINAGE WATER AND RESERVOIR BEDS: DISPOSAL OF WASTE WATER CONTAMINATED WITH RADIOACTIVE MATTER [AND] SANITARY AND HYGIENIC PREPARATION OF RESERVOIR BEDS FOR FLOODING UNDER THE CONDITIONS OF UZBEKISTAN.
31 Oct 63, 13p JPRS: 21679.
Order from OTS $0.50 TT-63-41040

Ivanov, A. M.
BINDING OF COAL-DUST DEPOSITS IN RETURN AIRWAYS (Svyazyvanie Osevshei Pyli v Ventilyatsionnykh Shtrekakh) tr. by L. Meyer. June 62 [5]p S.M.R.E. Trans. no. 4715; [DSIR] NLL M.3970
Order from OTS, SLA, or ETC $1.10 TT-63-19860

Trans. of Bezop[asnost'] Truda v Promyshlennosti (USSR) 1961, v. 5, no. 9, p. 21-22.

Marei, A. N., ed.
THE EFFECT OF RADIOACTIVE CONTAMINATION ON THE SANITARY CONDITIONS OF OPEN RESERVOIRS: THE BEHAVIOR OF RADIOACTIVE SUBSTANCES IN SOILS AND THEIR MIGRATION IN TERRESTRIAL FLORA AND FAUNA: TABLE OF CONTENTS. 8 Nov 63, 88p JPRS: 21799.
Order from OTS $2.25 TT-63-41102

Petrukhin, P. M.
PREVENTION OF COAL DUST EXPLOSIONS IN BLIND HEADINGS (Preduprezhdenie Vzryvov Ugol'noi Pyli v Zaboyakh Glukhikh Vyrabotok) tr. by L. Meyer. Apr 62 [8]p S.M.R.E. Trans. no. 4682; [DSIR] NLL M. 3778
Order from OTS, SLA, or ETC $1.10 TT-63-19780

Trans. of N[auchno]-I[ssledovatel'skii] I[nstitut po Bezopasnosti Rabot v Gornoi Promyshlennosti]. Sbornik Statei (USSR) 1961, v. 17, p. 10-13.

MACHINERY, FABRICATION, AND ACCESSORY EQUIPMENT

Artemenko, E.
UNDER THE FIRE OF CRITICISM: INVENTORS AND ROUTINEERS, tr. by J. B. 10 May 63, 4p.
Order from OTS, SLA, or ETC $1.10 TT-63-19625

Trans. from Pravda [Moscow] (USSR) 1962, 9 Dec, p. 4.

Khailis, G. A.
THE OPERATION OF BINDING MECHANISMS WITH SHEAF SEPARATORS IN FLAX PULLERS (O Rabote Vyazal'nykh Apparatov s Razdelitelyami Snopov v L'noterebilkakh). Aug 62 [12]p. RTS 2111.
Order from OTS, SLA, or ETC $1.60 TT-62-32487

Trans. of Traktory i Sel'khozmashiny (USSR) 1960, v. 30, no. 1, p. 19-22.

Opitz, H. and Weber, G.
EFFECT OF MATERIAL AND MACHINING CONDITIONS ON RAKE AND CLEARANCE FACE WEAR. Dec 61.
Order from BISI £7 15s BISI-2208

Trans. of Industrie Anzeiger (West Germany) 1953 [v. 75] p. 906-914.

Engines and Propulsion Systems

Adamovich, A. V.
STEEL, COILED PISTON RINGS IN VEHICLE ENGINES, tr. by A. J. Greening. [1962] [15p] MIRA Trans. no. 18/62; [DSIR] NLL M. 3741.
Order from OTS, SLA, or ETC $1.60 TT-63-19816

Trans. of Avtom[obil'naya] Prom[yshlennost'] (USSR) 1959, no. 4, p. 42-45. (Abstract available)

Adamovich, A. V. and Vzorov, B. A.
A FORK-SHAPED CURRENT CONDUCTOR FOR MEASURING PISTON TEMPERATURE, tr. by A. J. Greening. [1963] [9p] MIRA Trans. no. 15/62; [DSIR] NLL M. 3731.
Order from OTS, SLA, or ETC $1.10 TT-63-19822

Trans. of Avtom[obil'naya] Prom[yshlennost'] (USSR) 1960, no. 4, p. 23-24. (Abstract available)

Berman, L. D., Markin, V. P. and others.
THE USE OF DOUBLE TUBE SHEETS IN STEAM TURBINE CONDENSERS, tr. by J. K. Skwirzynski Jan 62 [13]p. 11 refs. [DSIR] NLL M. 3619.
Order from OTS, SLA, or ETC $1.60 TT-63-23387

Trans. of Teploenergetika (USSR) v. 8, no. 7, p. 24-29. (Abstract available).

Eckert, E.
CONCLUSIONS FOR TURBINE BUCKET SHAPES DEDUCED FROM INTERFERENCE MEASUREMENTS. [1963] 6p
Available on loan from SLA TT-63-20551

Trans. of article from an unidentified source, n. d.

Eckert, E. and Korbacher, G.
MEASUREMENT OF THE FLOW IN A SINGLE-STAGE MODEL-TURBINE DRIVEN BY COMPRESSED AIR. [1963] [56p] (foreign text included) 6refs
Available on loan from SLA. TT-63-20817

Trans. of mono. Ausmessung der Strömung in einer Einstufigen Druckluft-Modellturbine, n. p., n. d.

Omel'yanovich, G. A., Bondarenko, G. F. and others.
EJECTOR SYSTEM FOR ENGINE COOLING. 18 June 63 [3]p. FTD-TT-63-649; AD-409 149.
Order from OTS, SLA, or ETC $1.10 TT-63-23101

Unedited rough draft trans. of Russian patent 152149 (appl, 730255/25-8, 12 May 61). (Abstract available)

Trifonov, E. V. and Yampolskii, S. L.
MEASUREMENT OF AXIAL STRESSES IN A STEAM TURBINE. [1963] [5p] C. E. Trans. 2918.
Order from OTS SLA or ETC $1.10 TT-63-23973

Trans. of Elekt[richeskie] Stantsii (USSR) 1957, v. 28 [no. 3] p. 19-21. (Abstract available)

Westhäusser, R.
VARIOUS FAILURES IN BOILER PIPES. Oct 63.
Order from BISI £6 10s BISI-3359

Trans. of Bänder, Bleche, Rohre (West Germany) 1963 [no. 4] p. 174-178. (Abstract available)

DESCRIPTORS: *Boiler tubes, Failure (Mechanics).

Machine Parts and Mechanisms

Altmeyer, G. and Peiter, A.
MEASUREMENT OF RESIDUAL STRESSES AS A MEANS OF ASSESSING THE DAMAGE SUFFERED BY MATERIALS UNDER FATIGUE LOADS. Oct 63, 1400 words
Order from HB $4.80 HB-5838

Trans. of Materialprüfung (West Germany) 1960, v. 2, no. 6, p. 198-207. (Abstract available)

Appelt, Waldemar.
RAISING THE FATIGUE STRENGTH OF AUTOMOBILE CRANKSHAFTS BY SWAGING THE SURFACES AT THE EDGES OF THE BORES. [1963] 7p 6refs
Available on loan from SLA TT-63-20078

Trans. of ATZ; Automobiltechnische Zeitschrift (Germany) 1937 [v. 40, no. 19] p. 473-[475].

Kappis, Max.
LOCKING DEVICE FOR BOLT AND NUT, tr. by J. R. P. 5 June 63, 5p. (figs. omitted).
Order from OTS, SLA or ETC $1.10 TT-63-23166

Trans. of German patent 684, 466, cl. 47a, gr. 11, pat. from 9 Sep 37, grant announced 9 Nov 39, pub. 29 Nov 39.

Polyak, M. S.
NEW ALLOYS FOR IMPROVING THE DURABILITY OF MACHINE PARTS SUBJECTED TO ABRASION. 17 Oct 63, 3p JPRS: 21489.
Order from OTS $2.00 in TT-63-31957 (p. 31-33)

Trans. of Byulleten' Tekhniko-Ekonomicheskoi Informatsii (USSR) 1963, no. 5, p. 3-5.

Manufacturing Equipment and Processes

RESILIENT PIPE WITH INNER AND OUTER REINFORCING ELEMENTS, tr. by J. M. H. 25 Oct 60, 3p. (illus. omitted).
Order from OTS, SLA, or ETC $1.10 TT-61-13831

Trans. of German patent 530,179, cl. 47f, gr. 15, by Berlin-Karlsruher Industrie-Werke A.G., addition to patent 528,415, pat. from 9 Jan 30, grant announced 9 July 31, pub. 23 July 31 (principal patent commenced 10 Aug 29).

Danielyan, A. M., Parshin, I. P., and Bobrik, P. I.
INFLUENCE OF MATERIAL OF CUTTING PART OF CUTTING TOOL AND ITS CROSS SECTION ON THERMAL DEFORMATIONS OF THE CUTTER [AND] CERTAIN PROBLEMS OF THE PHYSICS OF CUTTING HEAT-RESISTANT ALLOYS. 7 Mar 63 [23]p. 5 refs. FTD-TT-62-1871; AD-299 859.
Order from OTS, SLA, or ETC $2.60 TT-63-19676

Unedited rough draft trans. of Aviatsionnyi Tekhnologicheskii Institut, Moscow. Trudy (USSR) 1962, v. 53, p. 5-22. (Abstract available)

Mednikov, Yu. A. and Krichevskii, E. M.
ELECTRIC WELDING OF TUBES FROM SLIT STRIP IN RIMMING STEEL. 9 Dec 57 [10p] 4refs
TIL Trans. no. 1384; [BISI] Trans. no. 741; [DSIR] NLL M. 4170.
Order from OTS, SLA, or ETC $1.10 TT-62-13192

Trans. of Stal' (USSR) 1957, v. 17 [no. 9] p. 819-822. (Abstract available)

Veduta, N.
THE NEW SCIENTIFIC CENTER (ITS DUTIES: IMPROVEMENT OF INDUSTRIAL ORGANIZATION) tr. by J. B. 21 May 63, 11p
Order from OTS, SLA, or ETC $1.60 TT-63-19628

Trans. from Ekonomicheskaya Gazeta (USSR) 1963, no. 3[76]. (Abstract available)

Transport, Traction and Hoist Facilities

ON THE AIRWAYS--THE TU-124. 3 June 63 [4]p (figs omitted) FTD-TT-63-465
Order from OTS, SLA, or ETC $1.10 TT-63-23648

Unedited rough draft trans. of Kryl'ya Rodiny (USSR) 1963 [v. 14] no. 1, p. 16-17.

Behnsen, Georg.
TRUCK TILTING MECHANISM, tr. by J. R. P. 11 June 63, 7p. (figs. omitted).
Order from OTS, SLA or ETC $1.10 TT-63-23165

Trans. of German patent 404, 214 (addition to pat. 380, 431) cl. 63c, gr. 21, to Fried Krupp AG, pat. from 8 May 23, pub. 16 Oct 24.

Fakhrutdinov, V. Z.
TARGET BRAKING OF MARSHALLED CARS. [1963] [4]p.
Order from OTS, SLA, or ETC $1.10 TT-63-18074

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 5, no. 1] p. 69-70. (Abstract available)

Guitonneau, R.
THE PORT OF DUNKIRK AND ITS FACILITIES: ORE UNLOADING, HANDLING AND STOCKING (EXTRACTS). May 63.
Order from BISI £2 BISI-3256

Trans. of Nord Industriel [et Commercial] (France) 1962, v. 29, Dec. spec. no. on Dunkirk, p. 22-23, 26, 35.

Raimondi, Guido.
DOUBLE EMERGENCY BRAKE FOR HEAVY MOTOR VEHICLES, TRAILER-TRUCKS AND BUSES, tr. by L. A. N. 21 Aug 63, 7p. (figs. omitted).
Order from OTS, SLA, or ETC $1.10 TT-63-23774

Trans. of Italian patent 478,826, cl. VII, appl. 19 June 51, granted 5 Mar 53. (Abstract available)

MATERIALS

METHOD OF PRODUCING MORTAR FROM BURNT LIME OR HYDRATE OF LIME. Jul 61
Order from C.L.A.I.R.A. Laboratories, Church Street, Welwyn, Herts, England £1 CLAIRA T.3

Trans. of Danish patent 81,494 [1957] by F. L. Smidth & Co.

POPPED PERLITE AND ARTICLES BASED THEREON. 9 May 63 [13]p (figs omitted) FTD-TT-63-354
Order from OTS, SLA, or ETC $1.60 TT-63-23209

Unedited rough draft trans. of mono. Vspuchennyi Perlit i Izdeliya na Ego Osnova, Kiev, 1961, p. 1-10.

Degenhardt, Johannes.
GRATING OF INTERSECTING RODS FOR FOOT SCRAPER MATS, RUNWAYS, WINDOWS, ETC., tr. by J. R. 21 June 62, 7p. (11 figs. omitted).
Order from OTS, SLA, or ETC $1.10 TT-62-25694

Trans. of Swiss patent 128,684, cl. 15c, appl. filed 27 Apr 27, pub. 16 Nov 28 (priorities: Germany 28 Apr, 5 and 15 June 26, 19 Feb and 2 Mar 27).

Dubianski, Marc-Maxime.
SAUCER, tr. by C. P. 8 Aug 60, 3p. (3 figs. omitted).
Order from OTS, SLA, or ETC $1.10 TT-61-13246

Trans. of French first addition patent 24,932 to patent 534523, appl. 4 June 21, granted 31 July 22, pub. 17 Nov 22 (principal patent taken out 19 Feb 21).

Eirich, W. and Eirich, C.
PROCESS FOR THE MANUFACTURE OF LIME MORTAR. Jul 61
Order from C.L.A.I.R.A. Laboratories, Church Street, Welwyn, Herts, England £4 CLAIRA T.9

Trans. of German patent 1,064,861 [1959].

Golubenkova, L. I., Shabadash, A. N., Nikonova, S. N., and Akutin, M. S.
THE GRAFTING OF POLYMERS TO SOLID SURFACES. I. AN INFRARED STUDY OF THE INTERACTION OF ORGANOSILICON COMPOUNDS AND GLASS. Sep 63, 8p 16refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 422-429

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1354-1360. (Abstract available)

Longechambon, L.
REFRACTORY CONCRETES: PROPERTIES OF HYDRAULIC CONCRETES. Aug 63.
Order from BISI £ 3 BISI-E-3159

Trans. of Société des Ingenieurs Civils de France. [Memoires] (France) 1955, v. 108, no. 2, p. 138-142.

Malova, T., Raskutina, K. and others.
OFFSET PRINTING ON COATED PAPER. [1963] [10]p.
Order from OTS, SLA, or ETC $1.10 TT-63-18863

Trans. of Poligraficheskoe Proizvodstvo (USSR) 1962, no. 1, p. 11-14. (Abstract available)

Rabinovich, I. B. and Osin, B. V.
ELECTROCONDUCTIVITY OF LIME DURING HYDRATION AND SETTING. 22 July 63, 9p. (figs. tables omitted) 8 refs.
Order from OTS, SLA or ETC $1.10 TT-63-18766

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1946, v. 19 [no. 1] p. 90-96. (Abstract available)

Scheer, Sophie and Arcari, Sandro.
LIQUID CONTAINER AND METHOD FOR ITS MAKING, tr. by L. H. 22 Aug 63, 8p. (figs omitted)
Order from OTS, SLA, or ETC $1.10 TT-63-23778

Trans. of Swiss patent 194,163, cl. 17a, appl. filed 1 May 36, registered 30 Nov 37, pub. 1 Feb 38 (priority claimed: Germany, 5 Feb 36).

Ceramics and Refractories

Aoyama, Y. and others.
RESULTS OBTAINED WITH THE USE OF TAR-BONDED DOLOMITE BRICK (IN THE BASIC OXYGEN FURNACE). Oct 63, 1200 words
Order from HB $4.20 HB-5925

Trans. of Tetsu to Hagane (Japan) 1963, v. 49, no. 3, p. 390-392.

Cammerer, W. F.
HEAT FLOW MEASUREMENTS IN BOILER LININGS. July 63.
Order from BGIRA BGIRA-571

Trans. of D[eutsche] K[eramische] G[esellschaft]. Berichte (West Germany) 1962, v. 39, no. 7, p. 376-381.

Endell, T.
MIXING IN THE SANDLIME BRICK INDUSTRY. Jul 61
Order from C. L. A. I. R. A. Laboratories, Church Street, Welwyn, Herts, England £3 CLAIRA T. 4

Trans. of Tonindustrie-Zeitung (West Germany) 1955, v. 79, no. 11/12, p. 167-169.

Godron, Y.
POLARISATION OF REFRACTORIES PLACED AT CONSTANT TEMPERATURE IN CONTACT WITH GLASSES OR MOLTEN SALTS. July 63.
Order from BGIRA BGIRA-572

Trans. of Silicates Industriels (Belgium) 1963, v. 28, no. 1, p. 19-27.

Gunzelmann, R.
AUTOMATION IN THE SANDLIME BRICK INDUSTRY. Jul 61
Order from C. L. A. I. R. A. Laboratories, Church Street, Welwyn, Herts, England £5 CLAIRA T. 7

Abridged trans. of Tonindustrie-Zeitung (West Germany) 1958, v. 82, no. 16, p. 341-348.

Gunzelmann, R.
AN INVESTIGATION OF THE EFFECT OF HARDENING-PRESSURE, HARDENING-TIME, AND LIME-CONTENT IN THE MANUFACTURE OF SAND-LIME BRICKS AT PRESSURES OF 8-40 ATMOSPHERES. Jul 61
Order from C. L. A. I. R. A. Laboratories, Church Street, Welwyn, Herts, England £5 CLAIRA T. 2

Trans. of Tonindustrie-Zeitung (West Germany) 1956, v. 80, no. 1/2, p. 1-7.

Golushko, N. A.
GRAPHITE CONTAINING REFRACTORY MATERIALS. 22 Jun 63 [140p] 11refs FTD-TT-63-174.
Order from OTS $2.75 TT-63-11742

Unedited rough draft trans. of mono. Grafitosoderzhashie Ogneupory, Moscow, 1962, 110p. (Abstract available)

Homma, E., Onoda, T., and Nameishi, N.
STUDIES OF USED BRICKS TAKEN FROM BASIC OXYGEN LD FURNACE LININGS. Oct 63, 1000 words
Order from HB $3.50 HB-5741

Trans. of Tetsu to Hagane (Japan) 1962, v. 48, no. 11, p. 1359-1362. (Abstract available)

Kotler, J.
PRESENT-DAY THEORIES ABOUT THE FORMATION, PROPERTIES AND DEFINITIONS OF POLISHED GLASS SURFACES. [1963].
Order from SIC $15.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 155-160 (Abstract available)

Kühne, Klaus.
SYSTEMATIC INVESTIGATIONS OF GLASSES WITH RESPECT TO THEIR PROPERTIES IN DEPENDENCE ON THE POSITION OF THE IONS INCORPORATED INTO THE GLASS IN THE PERIODIC SYSTEM OF ELEMENTS. [1963] 23p (figs tables refs omitted)
Available on loan from SLA TT-63-20396

Trans. of Silikat Technik (East Germany) 1956, v. 7, no. 11, p. 451-465. (Abstract available)

Olbrychtowicz, I.
NOZZLES AND STOPPERS FOR THE CONTINUOUS CASTING OF TUBE STEEL. Oct 63, 2600 words
Order from HB $8.50 HB-6038

Trans. of Prace Inst[ytutow] Hutn[iczych] (Poland) 1962, v. 14, p. 285-289. (Abstract available)

Thiessen, F.
PROCESS AND DEVICE FOR THE MANUFACTURE OF SANDLIME BRICKS OR THE LIKE. Jul 61
Order from C. L. A. I. R. A. Laboratories, Church Street, Welwyn, Herts, England £4 CLAIRA T. 13

Trans. of German patent 1,078,037 [1960].

Trier, W.
HEAT TRANSFER BETWEEN FLAME AND GLASS IN GLASS MELTING TANKS. July 63.
Order from BGIRA BGIRA-573

Trans. of Glastechnische Berichte (West Germany) 1963, v. 36, no. 3, p. 73-86.

Volkenshtein, M. V. and Sharonov, Yu. A.
EFFECT OF ANNEALING OF POLYMER GLASSES ON THE TEMPERATURE DEPENDENCE OF THE HEAT CAPACITY IN THE SOFTENING RANGE, tr. by Ingeborg V. Baker. 21 Aug 63 [16]p. 14 refs. RSIC-47.
Order from OTS, SLA, or ETC $1.60 TT-63-23755

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 11, p. 1739-1745. (Abstract available)

Fuels, Lubricants, and Hydraulic Fluids

Kulakov, N. K.
MECHANISM OF HEATING OF THE CHARGE IN COKE OVENS, tr. by R. Hennefeld. [1963] [13]p Trans. no. CRL/T.786; [DSIR] NLL M.3732.
Order from OTS, SLA, or ETC $1.60 TT-63-19821

Trans. of Koks i Khimiya (USSR) 1959, no. 2, p. 20-27.

Sitkei, Gyorgy.
CONTRIBUTION TO THE THEORY OF JET ATOMIZATION (Beitrag zur Theorie Strahlzerstäubung) tr. by S. Reiss. Oct 63, 32p 9refs NASA Technical Trans. F-129.
Order from OTS $1.00 TT-63-11730

Trans. of Acta Technica (Hungary) 1959, v. 25, no. 1/2, p. 87-117. (Abstract available)

Zhukov, V. A. and Terekhov, S. L.
CONVERSION OF SOLID FUEL TO GASES FOR POWER AND FUEL OR SYNTHESIS USE. [1963] 11p. NCB Trans. A.1935/SEH; [DSIR] NLL M. 3897.
Order from OTS, SLA, or ETC $1.60 TT-63-19944

Trans. of Vsesoyuz[nyi] Nauch[no]-Issledovat[el'skii] Inst[itut po] Pererabotke Slantsev. Trudy 1959, v. 7, p. 107-119.

Leather and Textiles

BOBINA PERLON. [1963] 3p
Available on loan from SLA TT-63-18577

Condensed trans. of German mono. (pamphlet) of the Kunstseiden Fabrik Bobingen, n. d.

Bezusyak, Yu. L. and Saulova, L. V.
SOME FACTORS AFFECTING THE PRESSING OF ALKALI CELLULOSE, tr. by I. Gawrosnka. 20 Jun 63, 7p Courtaulds Misc. Lit. 3642; [DSIR] NLL M. 5348.
Order from OTS, SLA, or ETC $1.10 TT-63-23497

Trans. of Khim[icheskie] Volok[na] (USSR) 1963, no. 1, p. 60-63. (Abstract available).

Bystrov, A. M.
SOME RESULTS OF INVESTIGATION OF FABRIC TENSIONS, PRODUCED BY THE ROLLER COMPENSATOR (Nekotorye Rezul'taty Issledovaniya Natyazhenii Tkaii, Sozdavaemykh Rolikovym Kompensatorom) tr. by P. Thistlethwaite. [1963] [24]p (foreign text included). [CSIRO] no. 5789
Order from OTS, SLA, or ETC $2.60 TT-63-23753

Trans. of Tekstil'naya Promyshlennost' (USSR) 1957, v. 17 [no. 8] p. 36-40.

Reuschel, Paul.
DRIVE MECHANISM FOR THE NAPPING ROLLERS OF DRUM TYPE NAPPING MACHINES IN WHICH THE SPEED OF ROTATION OF THE ROLLERS CAN BE VARIED DURING THE OPERATION, tr. by F. H. B. 9 Aug 63, 3p. (figs. omitted).
Order from OTS, SLA, or ETC $1.10 TT-63-23773

Trans. of German patent 116,706, cl. 8/b, pat. from 17 Dec 1899, pub. 10 Jan 01.

Vol'f, L. A., Markovich, A. V., and Medvedkova, A. A.
ANTIFUNGAL ACTION OF SYNTHETIC FIBERS CONTAINING SPECIFIC CHEMICAL GROUPS. 5 Nov 63, 4p 3refs JPRS: 21738.
Order from OTS $0.50 TT-63-41068

Trans. of Vestnik Dermatologii i Venerologii (USSR) 1963, v. 37, no. 6, p. 39-40. (Abstract available)

Photographic Materials

Egli, Arnold August.
DEVICE IN MULTI-COLOR GRAVURE ROTARY PRESSES FOR ADJUSTMENT OF THE STEREO-CYLINDERS SO AS TO REGISTER IMAGES, tr. by F. H. B. 6 Aug 63, 5p (figs omitted)
Order from OTS, SLA, or ETC $1.10 TT-63-23777

Trans. of Swiss patent 154,531, cl. 48/d, appl. 6 May 31, registered 15 May 32, pub. 16 July 32.

Franzen, J. and Hebeda, E.
THE SCHWARZSCHILD EXPONENT OF ILFORD Q-PLATES FOR IONS OF MEDIAN MASS. [1963] [10p] 6refs
Order from SLA $1.10 TT-63-20328

Trans. of Zeitschrift für Naturforschung (West Germany) 1963, v. 17a, no. 6, p. 476-478. (Abstract available)

Gorokhovskii, Yu. N. and Popova, K. B.
RELATION OF COLOR REPRODUCTION TO THE SPECTRAL DISTRIBUTION OF THE COLORSENSITIVITY OF THE LAYERS OF NEGATIVE MULTILAYER FILMS. [1963] 9p.
Order from ATS $10.75 ATS-39Q71R

Trans. of Usp[ekhi] Nauchn[oi] Fotogr[afii] (USSR) 1962, v. 8, p. 146-154.

Kheinman, A. S., Natanson, S. V., and Donatova, V. P.
DESENSITIZING EFFECT OF SUPER-OPTIMUM DYE CONCENTRATIONS. [1963] 5p. 12 refs.
Order from OTS, SLA, or ETC $1.10 TT- 63-18785

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 1, p. 69-70. (Abstract available)
DESCRIPTORS: *Photographic emulsions, *Photosensitivity, *Dyes, Colors, Surface properties, Adsorption, Photographic filters, *Thiocyanines,

Khodchenkov, A. N., Grechko, M. K. and others.
EFFECT OF THE DURATION OF CHEMICAL RIPENING ON THE OPTICAL SENSITIZATION OF EMULSIONS. [1963] 8p.
Order from ATS $9.00 ATS-41Q71R

Trans. of Zh[urnal] Nauchn[oi] i Prikl[adnoi] Fotogr[afii] i Kinematogr[afii] (USSR) 1963, v. 8, no. 3, p. 167-174.

Levi, S. M., Tsvetkov, G. M., Khazan, S. M., and Peisakhov, V. I.
NEW METHODS OF COATING EMULSIONS AND OTHER LAYERS ON FLEXIBLE SUPPORT. [1963] 21p 27refs
Available on loan from SLA TT-63-20073

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1962, v. 7, no. 3, p. 209-218.

Lyalikov, K. S. and Ginzburg, K. M.
ROLE OF IODIDE IN THE PROCESS OF PHYSICAL RIPENING OF EMULSIONS. I. SILVER IODOBROMIDE NON-AMMONIACAL EMULSIONS. [1963] 15p 11 refs
Order from OTS, SLA, or ETC $1.60 TT-63-18787

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 1, p. 29-36. (Abstract available)

Lyalikov, K. S., Ginzburg, K. M., and Antipin, A. V.
THE ROLE OF POTASSIUM IODIDE IN THE FORMATION OF PHOTOGRAPHIC EMULSIONS. I. AMMONIA-FREE SILVER IODOBROMIDE EMULSIONS. [1963] 6p.
Order from ATS $7.00 ATS-40Q71R

Trans. of Zh[urnal] Nauchn[oi] Prikl[adnoi] Fotogr[afii] i Kinematogr[afii] (USSR) 1963, v. 8, no. 2, p. 101-105.

Ohbuchi, K.
DIGITAL INDICATING ELECTROSTATIC SENSITOMETER FOR ELECTROPHOTOGRAPHY. [1963] 8p.
Order from ATS $12.25 ATS-11Q71J

Trans. of Denshi Shashin (Japan) 1962, v. 4, no. 2, p. 1-4.

Sheberstov, V. I. and Vendrovskii, K. V.
INVESTIGATIONS OF THE THERMAL RELATIONSHIP OF PHOTOGRAPHIC DEVELOPMENT. VIII. DEPENDENCE OF DEVELOPMENT KINETICS AND ACTIVATION ENERGY UPON THE STATE OF LATENT IMAGE. [1963] 13p. 5 refs.
Order from OTS, SLA, or ETC $1.60 TT-63-18073

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1962, v. 7, no. 2, p. 103-111. (Abstract available)

Vendrovskii, K. V., Kartuzhanskii, A. L., and Pyasetskaya, O. V.
DEPENDENCE OF PHOTOMETRIC EQUIVALENT UPON THE NATURE OF RADIANT ENERGY INCIDENT OF PHOTOMETRIC EMULSION AND UPON EXPOSURE CONDITIONS. [1963] 5p. 3 refs.
Order from OTS, SLA, or ETC $1.10 TT-63-18784

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 1, p. 67-69. (Abstract available)

Vilenskii, Y. B., Iordanskii, A. N., and Budarina, N. N.
SOME PROBLEMS BEARING ON IMPROVING THE COLOR REPRODUCTION AND SHARPNESS OF POSITIVE COLOR FILMS. [1963] 9p.
Order from ATS $10.65 ATS-38Q71R

Trans. of Usp[ekhi] Nauchn[oi] Fotogr[afii] (USSR) 1962, v. 8, p. 13-20.

Plastics

Aleksandrov, A. Ya., Borodin, M. Ya., and Pavlov, V. V.
STRUCTURES WITH FOAM PLASTIC FILLERS. 10 Jun 63 [258p] 34refs FTD-TT-63-61.
Order from OTS $4.00 TT-63-11741

Unedited rough draft trans. of mono. Konstruktsii s Zapolnitelyami iz Penoplastov, Moscow, 1962, 187p. (Abstract available)

Bakalo, L. A., Krentsel', B. A., and Topchiev, A. V.
POLYMERIZATION OF SOME ORGANIC OXIDES. I. POLYMERIZATION OF EPICHLOROHYDRIN. Sep 63, 8p 11refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 429-435

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1361-1365. (Abstract available)

Eidus, Ya. T., Nefedov, B. K., and Lobzova, A. V.
CATALYTIC POLYMERIZATION OF OLEFINS. PT. 15. LIQUID PRODUCTS OF ETHYLENE POLYMERIZATION ON THE CATALYST NICKEL-OXIDE-ALUMINOSILICATE, UNDER HIGHER PRESSURE. [1963] [9]p. 5refs.
Order from OTS, SLA, or ETC $1.10 TT-63-18842

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 1] p. 21-27. (Abstract available)

Erasova, E. L., Krentsel', B. A., Pokatilo, N. A., and Topchiev, A. V.
THE ISOMERIZING EFFECT OF THE CATALYTIC SYSTEM $Al(C_2H_5)_3+CrCl_3$ IN THE POLYMERIZATION OF BUTENE, I. Sep 63, 3p 3refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 558-560

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 12, p. 1796-1798. (Abstract available)

Ermolina, A. V., Igonin, L. A., and Kargin, V. A.
A STUDY OF THE RELATIONSHIP BETWEEN PHYSICO-MECHANICAL PROPERTIES AND THE NATURE OF THE SECONDARY STRUCTURES IN CRYSTALLINE POLYMERS. II. A PHOTOMICROGRAPHIC STUDY OF SPHERULITE STRUCTURES IN POLYAMIDE 68 IN BULK. Sep 63, 7p 12refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 446-452.

Trans. of Vysokomolekulyarnys Soedineniya (USSR) 1962, v. 4, no. 9, p. 1380-1384. (Abstract available)

Glavati, O. L. and Polak, L. S.
PRODUCTION OF STEREOSPECIFIC POLYMERS BY γ-IRRADIATION OF INCLUSION COMPOUNDS [Poluchenie Stereospetsificheskikh Polimerov γ-Oblucheniem Soedinenii Vklyucheniya]. [1963] [7]p. 2 refs.
Order from OTS, SLA, or ETC $1.10 63-18845

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 3] p. 318-323.
Another trans. is available from OTS or SLA $1.60 as 63-19970, CSIRO Trans-6196 [1963] [14]p.

Klimov, B. M. and Rivin, A. N.
SOUND-ABSORBING COATINGS MADE FROM WEDGES OF POLYURETHAN FOAM. [1963] [3]p. 3 refs. [DSIR] NLL M.10083.
Order from OTS, SLA or ETC $1.10 TT-63-23359

Trans. of #Akusticheskii Zhurnal (USSR) 1962, v. 8, no. 3, p. 367-369. (Abstract available)

Lipatov, Yu. S.
STUDIES OF POLYMER-FILLER INTERACTION. VI. SOME RHEOLOGICAL PROPERTIES OF POLYMER SOLUTIONS IN THE PRESENCE OF FILLERS. Sep 63, 11p 11refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 490-500

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1528-1536.
Another trans. is available from OTS or SLA $1.60 as TT-63-16597 [1963] [18p].

Matsoyan, S. G., Elyazyan, M. A., and Gevorkyan, E. Ts.
STUDIES IN CYCLIC POLYMERIZATION AND COPOLYMERIZATION. X. A STUDY OF THE ABILITY OF SOME ALIPHATIC DIVINYLACETALS TO UNDERGO CYCLIC POLYMERIZATION. Sep 63, 6p 7refs
Order from PP $-40.00/year in Polymer Science USSR, v. 4, no. 3, p. 476-481

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1515-1519. (Abstract available)

Minsker, K. S. and Ganina, V. I.
THE ROLE OF SURFACE ELECTRON DEFECTS IN HETEROGENEOUS CATALYTIC POLYMERIZATION. III. THE POLYMERIZATION OF ACRYLONITRILE IN THE PRESENCE OF COLOURED ALKALI HALIDES OBTAINED IN THE WURTZ-FITTIG REACTION. Sep 63, 8p 22refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 512-519

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 11, p. 1665-1671. (Abstract available)

Mitsengendler, S. P., Andreeva, G. A., Sokolova, K. I., and Korotkov, A. A.
THE SYNTHESIS OF GRAFT COPOLYMERS BY THE ACTION OF POLYMERIC ORGANOMETALLIC COMPOUNDS ON POLAR POLYMERS AND A STUDY OF THEIR PROPERTIES. I. STYRENE-METHYL METHACRYLATE GRAFT COPOLYMERS. Sep 63, 10p 6refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 436-445

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1366-1374. (Abstract available)

Razuvaev, G. A., Minsker, K. S., and Fedoseeva, G. T.
THE HETEROGENEOUS CATALYTIC POLYMERIZATION OF ETHYLENE IN THE PRESENCE OF $TiCl_3$+Al+$AlCl_3$ AND $TiCl_3$(Al+HCl). Sep 63, 10p 13refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 467-476

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1495-1502. (Abstract available)

Reznikova, R. A., Zainochkovskii, A. D., and Voyutskii, S. S.
PLASTICIZATION OF POLYVINYL CHLORIDE WITH A BUTADIENE-NITRILE COPOLYMER. I. INFLUENCE OF POLYMERS ON THE COMPATIBILITY AND THE EFFECT OF THE CONTENT OF BUTADIENE AND NITRILE GROUPS IN THE BUTADIENE-NITRILE COPOLYMER ON THE PLASTICIZATION. [1963] 22p (figs omitted).
Order from K-H $22.00 K-H 5309

Trans. of #Kolloidnyi Zhurnal (USSR) 1953, v. 15 [no. 2] p. 108-116.
Another trans. is available from LC or SLA mi$2.40, ph. $3.30 as 59-15925 [1959] 18p.

Shilov, A. E., Shilova, A. K., and Bobkov, B. N.
REACTIONS OF α-OLEFINS WITH SOLUBLE COMPLEX CATALYSTS OF THE ZIEGLER TYPE AND THE MECHANISM OF INITIATION OF THE POLYMERIZATION OF ETHYLENE. Sep 63, 10p 9refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 526-535

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 11, p. 1688-1695. (Abstract available)
Another trans. is available from ATS $12.75 as ATS-65Q67R [1963] 9p.

Shteding, M. N. and Karpov, V. L.
THE STUDY OF THE INHIBITING PROPERTIES OF STABILIZERS BY THE THERMOMECHANICAL METHOD. II. ORGANOTIN COMPOUNDS AS STABILIZERS FOR POLYVINYLCHLORIDE UNDER HIGH TEMPERATURE AND γ RADIATION CONDITIONS. Sep 63, 6p 5refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 561-566

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 12, p. 1806-1811. (Abstract available)

Tokarzewski, Ludomir.
THE DECHLORINATING EFFECT OF SODIUM PHENOXIDE ON POLYVINYL CHLORIDE. [1963] 4p
Order from K-H $4.00 K-H 9757

Trans. of Roczniki Chemii (Poland) 1959, v. 33, p. 849-852.

Tolstopyatova, A. A., P'eng, Pi-hsiang, and Balandin, A. A.
DEHYDROGENATION AND DEHYDRATION KINETICS OF ISOPROPANOL AND OF DEHYDROGENATION OF TETRALINE ON YTTERBIUM OXIDE. [1963] [12]p. 4 refs.
Order from OTS, SLA, or ETC $1.60 TT-63-18834

Trans. of #Akad[emiya] Nauk SSSR. Otdel[enie] Khim[icheskikh] Nauk. Izvest[iya] 1962, no. 8, p. 1322-1329. (Abstract available)

Überreiter, K. and Orthmann, H.-J.
DEGREE OF COORDINATION OF SOLID POLYETHYLENES. Pt. III of [Study] on Polyethylenes. [1963] 35p (figs omitted) 32refs
Order from SLA $3.60 TT-63-18987

Trans. of Kolloid-Zeitschrift [und Zeitschrift für Polymere] (West Germany) 1952, v. 128, no. 3, p. 125-136. (Abstract available)

Vansheidt, A. A., Mel'nikova, E. P., and Gladkovskii, G. A.
THE PREPARATION AND PROPERTIES OF POLYMERS OF THE TYPE OF POLYPHENYLENEMETHYL. II. THE PREPARATION OF POLYARYLENEMETHYLS BY POLYCONDENSATION OF AROMATIC HYDROCARBONS WITH THEIR bis-ACETOXY AND bis-CHLOROMETHYL DERIVATIVES. Sep 63, 8p 4refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 397-404

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1303-1309. (Abstract available)

Würstlin, F[ranz] and Klein, H[ermann].
THE PLASTICIZING OF MACROMOLECULES. [1963] 24p (figs omitted).
Order from K-H $24.00 K-H 5309 e

Trans. of Kunststoffe (West Germany) 1952, v. 42, no. 12, p. 445-449.
Another trans. is available from SLA mi$2.40, ph$3.30 as TT-60-16280 [1960] [19p].

Rubber and Elastomers

Bartenev, G. M. and Vishnitskaya, L. A.
COMPARISON OF VARIOUS EQUATIONS FOR THE DEFORMATION OF NETWORK POLYMERS WITH EXPERIMENT. Sep 63, 11p 30refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 404-414

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1324-1332.

Bukhina, M. F. and Gorelik, B. M.
THE THERMOMECHANICAL PROPERTIES OF VULCANIZED CRYSTALLIZABLE RUBBERS. Sep 63, 4p 7refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 453-456

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1390-1393. (Abstract available)

Kuz'minskii, A. S., Zaitseva, V. D., and Lezhnev, N. N.
SUPPRESSION OF THE CATALYTIC ACTIVITY OF IONS OF METALS OF VARIABLE VALENCY IN THE OXIDATION OF RUBBERS. Sep 63, 7p 6refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 520-526

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 11, p. 1682-1687. (Abstract available)
Another trans. is available from American Chemical Society, Prince and Lemon Streets, Lancaster, Pa. in Rubber Chemistry and Technology, v. 36, no. 2, $9.50/year

Mladenov, I., Tutorskii, I. A., and Dogadkin, B. A.
ON THE CHANGES IN CARBOXYL-SUBSTITUTED BUTADIENE-SYTRENE RUBBERS AND THEIR MIXTURES WITH ε-CAPROLACTAM UNDER THE ACTION OF γ-RAYS, tr. by B. C. L. Salman. Dec 60 [15]p 2refs NP-tr-826.
Order from OTS, SLA, or ETC $1.60 TT-63-23297

Trans. of mono. Moscow Symposium on High Polymers, v. 3, 1959, p. 293-300.

Zelenev, Yu. V.
THE RELATIONSHIP BETWEEN THE STRUCTURE AND DYNAMIC PROPERTIES OF RUBBER-LIKE NETWORK POLYMERS OVER A WIDE RANGE OF TEMPERATURES. Sep 63, 10p 13refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 457-466

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1486-1494.

Wood and Paper

Office of Technical Services, Dept. of Commerce, Washington, D. C.
PAPER. Jul 63, 34p refs. OTS Selective Bibliography SB-515.
Order from OTS $0.10 OTS-SB-515
(Abstract available)

Vethe, A. and others.
INVESTIGATIONS OF MODERN METHODS OF DIGESTING HARDWOODS. July 63, 13p. (figs. omitted) 7 refs.
Order from SLA $1.60 TT-63-18695

Trans. of Norsk Skogindustri (Norway) 1962, v. 16, no. 11, p. 458-469.

MATHEMATICS

CHINESE MATHEMATICS, 1963, VOL. 4, NO. 1, P. 1-159. Nov 63, 1v.
Order from the American Mathematical Society, Providence, R. I. $20.00/year

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 1-[143].

Ch'en, Chung-hu.
ON THE REGULARITY THEOREM OF REAL SEMI-SIMPLE LIE ALGEBRA, tr. by Wu-yi Hsiang. Nov 63, 4p 8refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 127-130)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 116-118. (Abstract available)

Ch'eng P'ing.
BAYES SEQUENTIAL PROCEDURES WITH K-DECISION ACTIONS FOR THE EXPONENTIAL POLYA TYPE III DISTRIBUTIONS, tr. by H. P. Kuang. Nov 63, 17p 6refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 131-147)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 119-[135]. (Abstract available)

Hsieh, T'ing-fan.
ON CONVERGENCE IN BANACH SPACES, tr. by Elsie and Loren Argabright. Nov 63, 4p 5refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 31-34)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 29-31. (Abstract available)

Kao, Heng-shan.
ALGEBRAIC TREATMENT OF THE NOTION OF SATISFIABILITY IN THE SYSTEM δ_{ϵ}, tr. by John D. Hwang. Nov 63, 12p 6refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 76-87)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 68-77. (Abstract available)

Kazakevich, V. V.
APPROXIMATE INVESTIGATION OF SOME TYPES OF STRONGLY NON-LINEAR AUTONOMOUS SYSTEMS. 15 July 63 [93]p. 12 refs. FTD-TT-63-319.
Order from OTS, SLA, or ETC $9.60 TT-63-23666

Unedited rough draft trans. of Avtomaticheskoe Upravlenie i Vychislitel'naya Tekhnika (USSR) 1962, v. 5, p. 365-442. (Abstract available)

Ku, Ch'ao-hao.
A BOUNDARY VALUE PROBLEM FOR HYPERBOLIC SYSTEMS AND ITS APPLICATIONS, tr. by C. K. Chu. Nov 63, 19p 6refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 35-53)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 32-48. (Abstract available)

Lu, Ch'i-k'eng.
THE ELLIPTIC GEOMETRY OF EXTENDED SPACES, tr. by Chung-lie Wang. Nov 63, 16p 9refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 54-69)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 49-62. (Abstract available)

Mangeron, D. and Krivocheine, L. E.
QUALITATIVE STUDY OF A GLASS OF BOUNDARY VALUE PROBLEMS FOR INTEGRO-DIFFERENTIAL EQUATIONS AND APPROXIMATE DETERMINATION OF THEIR SOLUTIONS, tr. by Y. T. Chou. Nov 63, 6p 11refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 70-75)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 63-67. (Abstract available)

Sarmanov, O. V. and Zakharov, V. K.
MEASURES OF DEPENDENCE BETWEEN VARIABLES AND THE SPECTRA OF STOCHASTIC KERNELS AND MATRICES (Mery Zavisimosti Mezhdu Sluchainymi Velichinami i Spektry Stokhasticheskikh Yader i Matrits) tr. by Z. D. Knowles. 26 June 63 [17]p NIH no. 6-36-63
Order from OTS, SLA, or ETC $1.60 TT-63-23177

Partial trans. (p. 953-965) of Matematicheskii Sbornik (USSR) 1960, v. 52(94) no. 4, p. 953-990. (Abstract available)

Su Buchin.
CONTRIBUTIONS TO THE THEORY OF CONJUGATE NETS IN PROJECTIVE HYPERSPACE, PT. V. Nov 63, 12p 9refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 148-159)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 136-143.

T'ai, Chih-chung.
ON DISCRETE VALUATIONS, tr. by Jiang Luh. Nov 63, 6p 6refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 18-23)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 17-22. (Abstract available)

Tung, Kuang-ch'ang.
BOUNDARY VALUE PROBLEMS FOR DEGENERATE ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS, tr. by Y. M. Chen. Nov 63, 22p 5refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 105-126)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 94-115. (Abstract available)

Wang, Chen-yu.
ON AN INTERPOLATION PROBLEM OF ENTIRE FUNCTIONS, tr. by Yi Chang. Nov 63, 17p 3refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 1-17)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 1-16.

Wang, Chin-ju.
A GRADIENT METHOD FOR FINDING THE EIGENVALUES AND EIGENVECTORS OF A SELS-ADJOINT OPERATOR, tr. by Michael Liu. Nov 63, 7p 7refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1, (p. 24-30)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 23-28. (Abstract available)

Wu, Chen-te.
THE NONREDUCIBILITY OF THE OPERATION $\mathfrak{P}_p \mathfrak{P}^{pa+i} \ldots \mathfrak{P}^{pa+1} \mathfrak{P}^{pa}$, tr. by R. C. Read and P. C. Feng. Nov 63, 9p 8refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 88-96)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 78-85. (Abstract available)

Wu, Li-te.
ON THE DISTRIBUTIONS OF INTEGRAL FUNCTIONALS OF HOMOGENEOUS DENUMERABLE MARKOV PROCESSES, tr. by Elmer J. Brody. Nov 63, 8p 6refs
Order from the American Mathematical Society, Providence, R. I. $21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 97-104)

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 86-93.

Computing Devices

COMPUTER AND INFORMATION TECHNOLOGY, A COLLECTION OF MATERIALS OF THE CONFERENCE ON INFORMATION PROCESSING, MACHINE TRANSLATION AND AUTOMATIC TEXT READING, MOSCOW, 24-31 JAN 61. Foreign Developments in Machine Translation and Information Processing, no. 139. 14 Oct 63, 329p 147refs JPRS: 21446.
Order from OTS $5.00 TT-63-31940

Trans. of mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Konferentsiya po Obrabotke Informatsii, Mashinnomu Perevodu i Avtomaticheskomu Chteniyu Teksta, Moscow, 24-31 Jan 61. Sbornik Materialov).

DIVISION MECHANISM FOR REGISTERING CALCULATORS WITH AUTOMATIC POINTING OFF OF THE DECIMAL, tr. by J. R. P. 8 Aug 63, 8p. (figs. omitted).
Order from OTS, SLA, or ETC $1.10 TT-63-23775

Trans. of Italian patent 564,394, cl. G06C, to Friden Calculating Machine Co. Inc., of San Leandro, Calif., appl. filed 5 Jan 57, pat. granted 14 June 57. (Abstract available)

Babii, V. I.
MAGNETIC DRUM MEMORY UNITS WITH PHASE INSCRIPTION. 14 Oct 63, 10p JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 183-192)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p.

Briling, K. K., Krivorutskii, Yu. Kh., and Levinskii, L. S.
CONSTRUCTION OF A HIGH-CAPACITY MAGNETIC MEMORY UNIT. 14 Oct 63, 9p 3refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 321-329)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Ermolova, N. M.
COMPUTER VERIFICATION OF DEVICE SYSTEMS. 14 Oct 63, 3p JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 180-182)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Fedotenkov, A. G. and Ozerov, V. N.
PARAMETRON OUTPUT UNITS. 14 Oct 63, 14p 5refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 271-284)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p.

Fedotov, N. D.
TRANSISTOR AND FERRITE TRANSISTOR ELEMENTS. 14 Oct 63, 11p JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 72-82)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Gryaznov, N. I. and Dyatlov, P. V.
MAGNETIC MEMORY UNIT INCORPORATING MAGNETIC CONTROL (MOZU-1000): CERTAIN FACTORS INVOLVED IN ADJUSTING INDUSTRIAL MODELS. 14 Oct 63, 10p 2refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 305-314)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Karal'nik, N. A.
EXPERIENCE IN THE INDUSTRIAL EXPLOITATION OF THE "MOZU-1000" MAGNETIC MEMORY (DEVELOPMENT OF THE LEM VINITI). 14 Oct 63, 6p JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 315-320)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Kurbakov, K. I.
LONG TERM MEMORY DEVICES. 14 Oct 63, 40p 70refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 193-233)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p.

Kurbakov, K. I. and Kuznetsov, V. I.
INDUSTRIALLY PRODUCED MAGNETIC (FERRITE) ELEMENTS. 14 Oct 63, 31p 7refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 133-163)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Lebedev, I. V.
PULSE MAGNETIC DECODER. 22 May 63 [5]p. FTD-TT-63-459.
Order from OTS, SLA or ETC $1.10 TT-63-23105

Unedited rough draft trans. of Russian patent 145064 (appl. 695956/26, 1 Feb 61). (Abstract available)

Mikhailov, A. I.
CONTEMPORARY PROBLEMS OF SCIENTIFIC AND TECHNICAL INFORMATION. 14 Oct 63, 9p JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 5-13)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Paufilov, B. M.
PULSE-TYPE POWER PACK FOR THREE-CYCLE MAGNETIC ELEMENTS. 14 Oct 63. 7p JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 164-170)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Perel'man, B. I.
COMPARISON OF PARAMETERS OF FERRITE-DIODE, FERRITE TRANSISTOR, SEMICONDUCTOR AND VACUUM TUBE LOGICAL CIRCUITS. 14 Oct 63, 47p 8refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 25-71)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Perel'man, B. I.
SEMICONDUCTORS IN DEVICES FOR THE CONTROL OF A MAGNETIC DECODER AND IN RAPID-CARRY KEYS FOR PARALLEL-ACTION FERRITE-DIODE CIRCUITS. 14 Oct 63, 37p 7refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 83-119)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Petrunichev, V. N.
ALTERNATING CURRENT ADDRESS SYSTEM POWER SUPPLY. 14 Oct 63, 11p 3refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 260-270)

Trans. of mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Posternak, A. L., Panfilova, L. L., Shturman, Ya. P., and Shokhat, V. S.
THE LEM-1-24 GENERAL-PURPOSE AUTOMATIC COMPUTER BASED ON FERRITE-DIODE MODULES. 14 Oct 63, 9p 4refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 171-179)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Smirnov, A. F.
A HIGH-SPEED TRANSISTORIZED MULTIPLICATION CIRCUIT. 14 Oct 63, 13p 3refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 120-132)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Smirnov, R. V.
CURRENT TRENDS IN THE DEVELOPMENT OF MAGNETIC OPERATIVE MEMORY UNITS. 14 Oct 63, 20p 32refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 285-304)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Vasil'ev, A. M.
ON FUNDAMENTALS FOR DESIGNING MACHINES FOR INFORMATION PROCESSING. 14 Oct 63, 11p JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 14-24)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

Vissonova, I. A.
LARGE VOLUME LONG TERM IMPULSE MEMORY UNITS. 14 Oct 63, 27p 3refs JPRS: 21446.
Order from OTS $5.00 in TT-63-31940 (p. 234-259)

Trans. from mono. Vychislitel'naya i Informatsionnaya Tekhnika, Moscow, 1962, 222p. (Abstract available)

MECHANICS

CERTAIN PROBLEMS OF MECHANICS: COLLECTED PAPERS (SELECTED ARTICLES). 28 Aug 63 [70p] 12refs FTD-TT-63-571.
Order from OTS, SLA, or ETC $6.60 TT-63-24150

Unedited rough draft trans. of mono. Nekotorye Voprosy Mekhaniki [Sbornik Statei] Moscow, 1962, p. 5-32, 107-126. (Abstract available)

SOVIET ABSTRACTS: MECHANICS, 1962, NO. 4, ABSTRACTS 4A40-4V559. [1963] [55]p.
Order from OTS, SLA or ETC $5.60 TT-63-23147

Trans. of Soviet abstracts from Referativnyi Zhurnal. Mekhanika (USSR) 1962, no. 4.
A partial trans. (titles only) is available from OTS or SLA $5.60 as 62-33359 [1962] [53]p.

SOVIET ABSTRACTS: MECHANICS, 1963, NO. 1, ABSTRACTS 1A1-1V679. [1963] [55]p.
Order from OTS, SLA or ETC $5.60 TT-63-23146

Trans. of Soviet entries from Referativnyi Zhurnal. Mekhanika (USSR) 1963, no. 1.

SOVIET ABSTRACTS: MECHANICS, 1963, NO. 2, ABSTRACTS 2A5-2V634. [1963] [51]p.
Order from OTS, SLA or ETC $5.60 TT-63-23160

Trans. of Soviet entries from Referativnyi Zhurnal. Mekhanika (USSR) 1963, no. 2.

Alfutov, N. A.
CALCULATING LOCAL DEFLECTIONS OF LRE COMBUSTION CHAMBER SHELLS. 28 Aug 63, 14p 3refs
FTD-TT-63-571.
Order from OTS, SLA, or ETC $6.60 in TT-63-24150 (p. 1-14)

Unedited rough draft trans. of mono. Nekotorye Voprosy Mekhaniki [Sbornik Statei] Moscow, 1962, p. 5-13. (Abstract available)

Bublik, B. M.
VIBRATIONS AND STABILITY OF A RIBBED CYLINDRICAL SHELL IN A FLOW OF COMPRESSIBLE LIQUID. 27 June 63 [7]p. 2 refs.
FTD-TT-63-647.
Order from OTS, SLA, or ETC $1.10 TT-63-23726

Unedited rough draft trans. of A[kademiya] N[auk] URSR [Kiev]. Dopovidi, 1963, no. 2, p. 178-183.

Nikitin, Yu. M. and Metlin, V. B.
DETERMINATION OF LOCAL DEFLECTIONS IN SHELLS OF AN LRE CHAMBER WITH VERY CLOSELY SPACED JOINTS. 28 Aug 63, 8p 2refs
FTD-TT-63-571.
Order from OTS, SLA, or ETC $6.60 in TT-63-24150 (p. 32-39)

Unedited rough draft trans. of mono. Nekotorye Voprosy Mekhaniki [Sbornik Statei] Moscow, 1962, p. 26-32. (Abstract available)

Sinyarev, G. B.
THERMODYNAMIC ANALYSIS AND HEAT CALCULATION OF A HIGH-VELOCITY CYLINDRICAL LRE COMBUSTION CHAMBER. 28 Aug 63, 28p 3refs
FTD-TT-63-571.
Order from OTS, SLA, or ETC $6.60 in TT-63-24150 (p. 40-67)

Unedited rough draft trans. of mono. Nekotorye Voprosy Mekhaniki [Sbornik Statei] Moscow, 1962, p. 107-126.

Vainberg, D. V., Zaruts'kii, V. O., and Itenberg, B. Z.
STRESSED STATE OF CYLINDRICAL SHELLS, REINFORCED WITH RIBS. 30 Apr 63 [16]p. 11 refs.
FTD-TT-62-1623; AD-409 273.
Order from OTS SLA, or ETC $1.60 TT-63-23109

Unedited rough draft trans. of Prykladna Mekhanika (USSR) 1960, v. 6, no. 4, p. 375-384. (Abstract available)

Vol'mir, A. S.
SURVEY OF INVESTIGATIONS ON THE THEORY OF FLEXIBLE PLATES AND SHELLS (COVERING THE PERIOD FROM 1941 TO 1957) (Obzor Issledovanii po Teorii Gibkikh Plastinok i Obolochek za Period s 1941 po 1957 g.). Oct 63 [48p] 174refs NASA Technical Trans. F-180. N63 22949
Order from OTS $1.25 TT-63-11731

Trans. of Raschet Prostranstvennykh Konstruktsii (USSR) 1958, v. 4, p. 451-475. (Abstract available)

Zarubin, V. S.
CONCERNING LOCAL STABILITY OF THE INNER WALL OF AN LRE CHAMBER. 28 Aug 63, 17p 4refs
FTD-TT-63-571
Order from OTS, SLA, or ETC $6.60 in TT-63-24150 (p. 15-31)

Unedited rough draft trans. of mono. Nekotorye Voprosy Mekhaniki [Sbornik Statei] Moscow, 1962, p. 14-25.

Aerodynamics and Pneumatics

PURE FLUID CONTROL DEVICES AND THE DESIGN OF PRINTED PNEUMATIC CIRCUITS. 13 Sep 63 16p. 9 refs. JPRS: 21085. N63-22100
Order from OTS $0.50 TT-63-31761

Trans. of #Avtomatika i Telemekhanika (USSR) 1963, v. 24, no. 8, p. 1155-1162.

Arkhipov, V. N. and Khoroshko, K. S.
METHOD OF CONSIDERING RELAXATION IN THE PROBLEM OF DIRECTING A FLOW AROUND A CONE. 22 July 63 [9]p. 3 refs. FTD-TT-63-655.
Order from OTS, SLA, or ETC $1.10 TT-63-23693

Unedited rough draft trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1962, no. 6, p. 121-124.

Aschenbrenner, Josef.
NON-STATIONARY GAS FLOW IN DUCTS OF VARIABLE CROSS SECTION. [1963] [23p] 11refs
Order from SLA $2.60 TT-63-20387

Trans. of Forschung auf dem Gebiete des Ingenieurwesens (Germany) 1937, v. 8, no. 3, p. 118-130.

Berndorfer, H. and Thomas, H.
A SIMPLE METHOD FOR THE VISUALIZATION OF THE COOLING AIR FLOW ABOUT AIR-COOLED ENGINES (Ein Einfaches Hilfsmittel zur Sichtbarmachung der Kühlluftströmung bei Luftgekuhlten Motoren). [1963] 5p (figs omitted)
Available on loan from SLA TT-63-20187

Trans. of [Deutsche Luftwacht]: Luftwissen (Germany) 1940 [v. 7, no. 4] p. 101-103.

Tirskii, G. A.
SUBLIMATION OF A BLUNT BODY IN THE VICINITY OF THE STAGNATION POINT IN PLANE AND AXISYMMETRICAL FLOW OF A GAS MIXTURE. 24 May 63 [31]p. 18 refs. FTD-TT-63-311. AD-409 954
Order from OTS, SLA or ETC $3.60 TT-63-23632

Unedited rough draft trans. of Zhurnal Vychislitel'noi Matematiki i Matematicheskoi Fiziki (USSR) 1961, v. 1, no. 5, p. 884-902. (Abstract available)

Votyakov, V. and Shumyatskii [B.].
AERODYNAMIC HEATING [Aerodinamicheskii Nagrev]. 19 June 63 [6]p. FTD-TT-63-390.
Order from OTS, SLA, or ETC $1.10 TT- 63-23652

Unedited rough draft trans. from Sovetskaya Aviatsiya (USSR) 1959, 14 Apr, p. 2. (Abstract available)
Another trans. is available from LC or SLA mi$1.80, ph$1.80 as 59-19714, 12 Aug 59 [4]p.

Hydrodynamics, Hydraulics, and Hydrostatics

Korotkov, A. A.
ON AXIAL FORCES IN HYDRODYNAMIC COUPLING (Ob Osevykh Silakh Gidrodinamicheskikh Muft). Nov 62 [15]p. 7 refs. RTS 2188.
Order from OTS, SLA or ETC $1.60 TT-63-15242

Trans. of Izv[estiya] Vyssh[ikh] Uchebn[ykh] Zav[edenii]. Energetika (USSR) 1959 [v. 2] no. 4, p. 115-123. (Abstract available)

Yutkin, L. A. and Gol'tsova, L. I.
ELECTROHYDRAULIC METHOD OF FEEDING AND ATOMIZING LIQUID FUELS AND OTHER LIQUIDS AND DEVICE FOR ITS ACCOMPLISHMENT. 3 June 63 [7]p. FTD-TT-63-478.
Order from OTS, SLA or ETC $1.10 TT-63-23735

Unedited rough draft trans. of Russian patent 119403, appl. no. 441894/25, 20 Jan 51. (Abstract available)

METALLURGY

SOVIET METALLURGY SUFFERS FROM MACHINERY SHORTAGE. 22 Oct 63, 6p JPRS: 21546.
Order from OTS $1.25 in TT-63-31983 (p. 23-28)

Trans. of Ekonomicheskaya Gazeta (USSR) 1963, no. 34[107] p. 17.

STAINLESS PLATINGS OF LARGE-THICKNESS STEELS. Quarterly rept. no. 2 on proposal 256, 1 Jan-31 Mar 62. [1963] 26p
Contract 040-61-9 RDB
Order from OTS, SLA, or ETC $2.60 EURAEC-329

Trans. of a rept. from Ghent U. (Belgium) and Soudametal Co. Ltd., Brussels (Belgium) n.d. (Abstract available)

STAINLESS PLATINGS OF LARGE-THICKNESS STEELS. Quarterly rept. no. 4 on proposal 256, 1 Jul-30 Sep 62. [1963] 46p
Contract 040-61-9 RDB
Order from OTS, SLA, or ETC $4.60 EURAEC-458

Trans. of a rept. from Ghent U. (Belgium) and Soudametal Co. Ltd., Brussels (Belgium) n.d. (Abstract available)

Andreev, V.
LOW-COST FUEL HELPS REDUCE METAL PRODUCTION COSTS. 22 Oct 63, 5p JPRS: 21546.
Order from OTS $1.25 in TT-63-31983 (p. 16-20)

Trans. of Ekonomicheskaya Gazeta (USSR) 1963, no. 33[106] p. 7.

Artamonov, A. Ya.
MECHANICAL WORKING BY CUTTING OF METAL POWDER ANTIFRICTION MATERIALS. 13 Feb 63 [20]p. 4 refs. FTD-TT-62-1472; AD-298 775.
Order from OTS, SLA, or ETC $1.60 TT-63-19309

Unedited rough draft trans. of [Vsesoyuznyi Neftyanoi Nauchno-Issledovatel'skii Geologo-Razvedochnyi Institut. Trudy] (USSR) 1961 [no. 174] Geokhimicheskii Sbornik, no. 7, p. 63-74. (Abstract available)

Baptizmanskii, V. I.
EXPERIMENTS ON THE TOP BLOWING OF METAL BATHS, BASED ON MODELS. Oct 63, 3400 words
Order from HB $9.70 HB-5784

Trans. of Izvest[iya] V[ysshikh] U[chebnykh] Z[avedenii]. Chern[aya] Met[allurgiya] (USSR) 1952, no. 10, p. 31-41. (Abstract available)

Borisov, S. I.
THE CONSUMPTION AND ECONOMY OF POWER IN THE PRODUCTION OF TUBES BY THE AUTOMATIC AND PILGER PROCESSES. 28 Jan 59 [27p] 2refs
TIL Trans. no. 1462; BISI Trans. no. 1099; [DSIR] NLL M. 4321.
Order from OTS, SLA, or ETC $2.60 TT-62-24199

Trans. of Stal' (USSR) 1958 [v. 18] Rolling and Tube Manufacture Suppl, p. 314-337. (Abstract available)

Boucraut, M.
MAGNETIC ROASTING OF FRENCH ORE CONTINUOUS CIRCUIT TESTS AT MAIZIÈRES. Paper presented to the Mixed Ore Commission, 9 May 63. [1963]
Order from BISI £3 10s. BISI-3368

Trans. of mono. IRSID Rept-R. I. 312, May 63.

Bungardt, K.
EFFECT OF MELTING UNDER REDUCED PRESSURE ON SOME PROPERTIES OF STEEL. Oct 63, 4400 words
Order from HB $9.80 HB-5864

Trans. of Schweizer Archiv [für Angewandte Wissenschaft und Technik] 1962, v. 28, no. 12, p. 485-490. (Abstract available)

Eichner, A.
MATERIALS FOR STOPPER TUBES OF TUNDISHES USED FOR VACUUM DEGASSING OF TRANSFORMER STEEL. Sep 63.
Order from BISI BISI-3342

Trans. of Hutnik (Czechoslovakia) 1962, v. 12, p. 586-590.

Fuchs, A., Reinhard, H., Niebuhr, J., and Beck, R.
DETERMINATION OF GASES IN FERROALLOYS AND IN ALLOYING METALS. Oct 63, 5200 words
Order from HB $12.50 HB-6003

Trans. of Archiv [für das] Eisenhüttenwesen (West Germany) 1963, v. 34, no. 5, p. 361-366. (Abstract available)

Heynert, G., Zischkale, W., and Willems, J.
SUBSTITUTION OF PELLETS FOR SINTER IN A FULLY BENEFICIATED (BLAST FURNACE) BURDEN. Oct 63, 6600 words
Order from HB $16.50 HB-5742

Trans. of Stahl und Eisen (West Germany) 1962, v. 82, no. 23, p. 1641-1647. (Abstract available)

Hirao, E., Oya, R., and Oku, S.
RATE OF ROTATION OF TEEMING LADLES USED IN A BASIC OXYGEN LD PLANT. Oct 63, 1300 words
Order from HB $4.55 HB-5932

Trans. of Tetsu to Hagane (Japan) 1963, v. 49, no. 3, p. 403-404. (Abstract available)

Hörnberg, F.
THE NEW TUBE MILL AT THE CHOUDWAR TUBE WORKS (INDIA). Sep 63.
Order from BISI £2 5s BISI-2971

Trans. of Bänder, Bleche, Rohre (West Germany) 1962 [no. 4] p. 187-189.

Inoue, Kiyoshi.
CASE HARDENING PROCESS UTILIZING SPARK DISCHARGES, tr. by K. K. K. 24 June 63, 4p. (figs. omitted).
Order from OTS, SLA, or ETC $1.10 TT-63-23171

Trans. of Japanese published patent application 32-6848, 28 Aug 57 (later announced as pat. 239067 -- tr.) appl. no. 29-26717, cl. 74 N O (12 A 3) 8 Dec 54. (Abstract available)

Kaltner, E. and Hödl, F.
THE LINING PROBLEM OF BASIC OXYGEN STEEL FURNACES. Oct 63, 4900 words
Order from HB $12.80 HB-6041

Trans. from Berg- und Hüttenm[ännische] Monatshefte (Austria) 1963, v. 108, no. 7. (Abstract available)

Kinne, G., Vishkarev, A. F., and Yavoiskii, V. I.
DEOXIDIZING CAPACITY OF THE RARE-EARTH METALS LANTHANUM, CERIUM, PRASEODYMIUM AND NEODYMIUM. Oct 63, 2200 words
Order from HB $6.60 HB-5984

Trans. of Izvest[iya] V[ysshikh] U[chebnykh] Z[avedenii]. Chern[aya] Met[allurgiya] (USSR) 1963 [v. 6] no. 5, p. 65-69. (Abstract available)

Korotich, V. I.
ON A STANDARD METHOD OF DETERMINING THE REDUCIBILITY OF IRON-ORE SINTERS. Oct 63, 3200 words
Order from HB $8.80 HB-5955

Trans. of Izvest[iya] V[ysshikh] U[chebnykh] Z[avedenii] Chern[aya] Met[allurgiya] (USSR) 1963 [v. 6] no. 4, p. 20-26. (Abstract available)

Krainer, H., Wahlster, M., and Lettmann, T.
DETERMINATION OF THE REDUCIBILITY OF ORES, SINTERS AND PELLETS IN A TWO STAGE TEST. Sep 63.
Order from BISI £4 10s BISI-3319

Trans. of Stahl und Eisen (West Germany) 1963, v. 83 [no. 10] p. 578-585.

Lozinskii, M. G. and Guterman, M. B.
INDENTORS OF HIGH HEAT RESISTANCE FOR HARDNESS TESTS ON METALS UP TO 1300°C IN VACUO. 31 Jan 58 [10p] 4refs GRC/T. 204; [BISI] Trans. 933; [DSIR] NLL M. 4095.
Order from OTS or SLA $1.10 TT-62-13208

Trans. of Zavodskaya Laboratoriya (USSR) 1956, v. 22, no. 11, p. 1358-1363. (Abstract available)
Another trans. is available from HB $3.80 as HB-4138.

Lüdemann, K.-F. and Fenzke, H.-W.
ELECTRICAL POTENTIAL DIFFERENCE BETWEEN IRON AND STEEL MELTS AND LIQUID SLAGS. Aug 63.
Order from BISI £4 5s BISI-3317

Trans. of Neue Hütte (East Germany) 1962, v. 7 [no. 11] p. 651-658.

Lunev, V.
THE LACK OF CENTRALIZED REPAIR SERVICES FOR KAZAKHSTAN INDUSTRY. 17 Oct 63, 5p JPRS: 21489.
Order from OTS $2.00 in TT-63-31957 (p. 44-48)

Trans. of Ekonomicheskaya Gazeta (USSR) 1963, no. 34[107] p. 5.

Luzgin, V. P., Vishkarev, A. F., and Yavoiskii, V. I.
DETERMINATION OF THE ACTIVITY OF OXYGEN IN IRON-CARBON-OXYGEN MELTS USING THE E.D.C. METHOD. Sep 63.
Order from BISI £3 10s BISI-3350

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Chernaya Metallurgiya (USSR) 1963 [v. 6] no. 5, p. 44-50.

Makhanek, N. G. and Kukarkin, A. S.
BLAST FURNACE OPERATING EXPERIENCE AT HIGH DRIVING RATES. Oct 63, 3500 words
Order from HB $9.50 HB-6049

Trans. of Izvest[iya] V[ysshikh] U[chebnykh] Z[avedenii]. Chern[aya] Met[allurgiya] (USSR) 1962, no. 5, p. 37-43. (Abstract available)

Morita, Sh. and others.
OPERATING RESULTS OBTAINED IN A 130-TON BASIC OXYGEN FURNACE EQUIPPED WITH AN OG GAS RECOVERY SYSTEM. Oct 63, 1000 words
Order from HB $3.50 HB-5933

Trans. of Tetsu to Hagane (Japan) 1963, v. 49, no. 3, p. 405-406. (Abstract available)

Palennyi, I. I.
A CONFERENCE ON MECHANIZATION AND AUTOMATION OF FINISHING SECTIONS IN PIPE ROLLING SHOPS. 22 Oct 63, 2p JPRS: 21546.
Order from OTS $1.25 in TT-63-31983 (p. 37-38)

Trans. of Metallurgicheskaya i Gornorudnaya Promyshlennost' (USSR) 1963, no. 3(21) p. 83.

Pridantsev, M. V., Sokolov, I. G., and Kondrat'ev, A. I.
THE EFFECT OF ELECTROSLAG REMELTING ON THE TECHNICAL PLASTICITY OF IRON-NICKEL-CHROMIUM BASE ALLOYS. 6 Nov 63, 9p 4refs JPRS: 21760.
Order from OTS $0.50 TT-63-41080

Trans. of #Avtomaticheskaya Svarka (USSR) 1963 [v. 16] no. 3, p. 7-12. (Abstract available)

Rakovskii, V. S.
THE ALL-UNION CONFERENCE ON POWDER METALLURGY (NO. 6) [MOSCOW, NOV, 1962]. 22 Oct 63, 2p JPRS: 21546.
Order from OTS $1.25 in TT-63-31983 (p. 21-22)

Trans. of Poroshkovaya Metallurgiya (USSR) 1963 [v. 3] no. 3, p. 110.

Ravicher, S. Ya.
POWDER METALLURGY IN THE SOVIET UNION. 22 Oct 63, 4p JPRS: 21546.
Order from OTS in TT-63-31983 (p. 12-15)

Trans. of Vystavka Dostizhenii Narodnogo Khozyaistva SSR. [Informatsionnyi Byulleten'] 1963, no. 8, p. 9-11.

Samsonov, G. V., Koval'chenko, M. S. and others.
DIFFUSION OF SILICON IN TITANIUM, TANTALUM, MOLYBDENUM AND IRON. 19 June 63 [7]p 10refs FTD-TT-63-262.
Order from OTS, SLA, or ETC $1.10 TT-63-23729

Unedited rough draft trans. of Akademiya Nauk URSR, [Kiev]. Dopovidi, 1959, no. 1, p. 32-26.

Shilova, E. I.
CHANGE IN THE MECHANICAL PROPERTIES OF ALUMINUM-COPPER-MAGNESIUM ALLOYS UNDER THE INFLUENCE OF DEFORMATION IN THE FRESHLY-HARDENED STATE AND OF HEATING FOR SHORT PERIODS AT 200°C [Izmenenie Mekhanicheskikh Svoistv Splavov Alyuminii-Med'-Magnii pod Vliyaniem Deformatsii v Svezhezakalennom Sostoyanii i Kratkovremennogo Nagreva pri 200°] tr. by S. Klemantaski [1962] [19]p. 13 refs. FRI Trans. no. 176; [DSIR] NLL M.6363.
Order from OTS or SLA $1.60 TT-62-25964

Trans. of mono. Legkie Splavy [Moscow, 1958] p. 123-132 (Konf. Moscow, 1955).
Also available from FRI as FRI Trans-176; another trans. is available from LC or SLA m$9.60, ph$33.30 in 59-19774, F-TS-9542, pt. 1 [1959] [233]p. (Abstract available)

Smirnov, M. V. and Ivanovskii, L. E.
REDUCTION OF Th^{4+} IONS IN CHLORIDE MELTS BY METALLIC THORIUM. [1963] 10p (figs omitted).
Order from K-H $10.00 K-H 8024 c

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1957, v. 31 [no. 4] p. 802-807.

Smirnov, V. S.
THE OCCURRENCE OF INTERNAL FRACTURE DURING CROSS FORGING. 24 Mar 59 [3p] 3refs BISI Trans. no. 1262; [DSIR] NLL M. 4562.
Order from OTS, SLA, or ETC $1.60 TT-62-24208

Trans. of Vestnik Mashinostroeniya (USSR) 1955, v. 35, no. 3, p. 49-53. (Abstract available)

Smoktii, V. V.
STUDY OF THE BASIC OXYGEN PROCESS WHEN USING VARIOUS COOLANTS. Oct 63, 2300 words
Order from HB $6.60 HB-5985

Trans. of Izvest[iya] V[ysshikh] U[chebnykh] Z[avedenii]. Chern[aya] Met[allurgiya] (USSR) 1963 [v. 6] no. 5, p. 58-64. (Abstract available)

Spasskii, A. G. and Fomin, B. A.
INCREASING THE MECHANICAL PROPERTIES OF CASTINGS BY THERMAL TREATMENT OF THE METAL IN LIQUID STATE. 29 Jul 63 [11p] 6refs FTD-TT-63-714.
Order from OTS $0.50 TT-63-11743

Unedited rough draft trans. of Issledovanie Splavov Tsvetnykh Metallov (USSR) 1962, v. 3, p. 143-148.

Türk, R. and Schwarz-Bergkampf, E.
METHODS OF CALCULATION FOR HIGH-TEMPERATURE RE-GENERATORS FOR THE IRON AND STEEL INDUSTRY. Aug 63.
Order from BISI £7 15s BISI-3294

Trans. of Radex-Rundschau (Austria) 1962 [no. 6] p. 311-331.
Another trans. is available from BGIRA as BGIRA-552, May 63.

Vavilov, N. S.
"IMET" FLUID-BED REDUCTION PROCESS FOR METAL OXIDES (SPECIFICALLY IRON ORES).
Oct 63, 2900 words
Order from HB $7.90 HB-5983

Trans. of Izvest[iya] V[ysshikh] U[chebnykh] Z[avedenii]. Chern[aya] Met[allurgiya] (USSR) 1963 [v. 6] no. 5, p. 26-33. (Abstract available)

Vinogradov, G. A. and Katashinskii, V. P.
DETERMINATION OF THE SPECIFIC PRESSURE DURING THE ROLLING OF METAL POWDERS.
Oct 63, 1600 words
Order from HB $4.40 HB-6073

Trans. of Poroshkovaya Metallurgiya (USSR) 1963 [v. 3] no. 3, p. 30-36. (Abstract available)

Ferrous Metals

BASIC STUDY ON SOME OF THE FORMS OF EMBRITTLEMENT OCCURRING IN WELDED JOINTS MADE ON HIGH TENSILE STEELS. Quarterly rept. no. 2, 1 Apr-30 Jun 62. [1963] 23p
Contract 073-61-12 RDF
Order from OTS, SLA, or ETC $2.60 EURAEC-430

Trans. of a rept. from Société des Forges et Ateliers du Creusot, Paris (France) n.d. (Abstract available)

BASIC STUDY [ON] SOME OF THE FORMS OF EMBRITTLEMENT OCCURRING IN WELDED JOINTS MADE ON HIGH TENSILE STEEL. Quarterly rept. no. 3, 1 Jul-30 Sep 62. [1963] 15p Contract 073-61-12 RDF
Order from OTS or SLA $1.60 EURAEC-501

Trans. of a rept. from Société des Forges et Ateliers du Creusot, Paris (France) n.d. Abstract available)

PRINCIPAL PERFORMANCE INDICATORS OF METALLURGICAL PLANTS. 22 Oct 63, 6p
JPRS: 21546.
Order from OTS $1.25 in TT-63-31983 (p. 39-44)

Trans. of Metallurgicheskaya i Gornorudnaya Promyshlennost' (USSR) 1963, no. 3(21) p. 83-84. (Abstract available)

PROCESS FOR CASTING STEEL IN INGOT MOLDS CONTAINING LIQUID SLAG, tr. by J. S. 24 May 63, 12p. (fig. omitted).
Order from OTS, SLA, or ETC $1.60 TT-63-23162

Trans. of Austrian patent 215,609, cl. .31 b, 2/03, to Société d'Électro-Chinie, d'Électro-Métallurgie et des Aciéries Électriques d Ugine, France, appl. 24 Nov 58, in force as of 15 Nov 60, pub. 12 June 61 (French priority of appl. 7 Aug 58, for corresponding French pat. of addition no. 73,094, granted 4 Apr 60, pub. 22 Sep 60). (Abstract available)

USSR INDUSTRIAL DEVELOPMENT: SOVIET FERROUS METALLURGY NO. 157. 22 Oct 63, 44p JPRS: 21546.
Order from OTS $1.25 TT-63-31983

Consists of 12 articles from 1963 issues of Russian journals and newspapers. Separate entries have been prepared for 9 articles. (Abstract available)

Amaki, T., Tominaga, T., and Kohara, H.
THE SPECTROPHOTOMETRIC DETERMINATION OF MANGANESE IN IRON AND STEEL. Oct 63, 1050 words
Order from HB $3.65 HB-6059

Trans. of Tetsu to Hagane (Japan) 1963, v. 49, no. 3, p. 629-631. (Abstract available)

Bergh, Sten.
QUANTITATIVE MICROSCOPIC DETERMINATION OF THE INCLUSION CONTENT IN STEEL. Oct 63, 3800 words
Order from HB $9.50 HB-5980

Trans. of Jernkontoret [Stockholm]. Annaler (Sweden) 1962, v. 146, no. 12, p. 924-934. (Abstract available)

Bogdandy, L. von, Meyer, W., and Stranski, I. N.
ON KINETICS OF DEOXIDATION OF STEEL WITH ALUMINIUM. Sep 63.
Order from BISI £4 BISI-3297

Trans. of Archiv für das Eisenhüttenwesen (West Germany) 1963, v. 34 [no. 4] p. 235-241.

Boucraut, M., Koskas, R., and Michard, J.
STUDY OF THE ENRICHMENT BY MAGNETIC ROASTING OF CERTAIN LORRAINE IRON ORES. Paper presented to the International Ore Propagation Congress (no. 6). [1963]
Order from BISI £5 5s. BISI-3367

Trans. of mono. IRSID Rept-R.E.8, July.

Danilov, F. A., Gleiberg, A.Z., and Balakin, V. G
BASIC PROBLEMS IN THE THEORY OF PIERCING. 2 Feb 60 [56p] [TIL] Trans. no. 1506; BISI Trans. no. 1354; [DSIR] NLL M.4915.
Order from OTS, SLA or ETC $5.60 TT-62-25871

Trans. of mono. [Proizvodstvo Stal'bykh Trub Goryachei Trokatkoi] (The Production of Steel Tubes by Hot Rolling) Moscow, 1954, chap. 6, p. 58-93. (Abstract available)

Davydov, Yu. P. and Pokrovskii, G. V.
STAINLESS SCALE-, ACID-, AND HEAT-RESISTANT STEELS AND ALLOYS. 15 May 63 [19]p. 3 refs. FTD-TT-63-353; AD-409 948.
Order from OTS, SLA, or ETC $1.60 TT-63-23207

Unedited rough draft trans. of mono. Listovaya Shtampovka Legirovannykh Stalei i Splavov [Sheet Stamping of Alloyed Steels,and Alloys] Moscow, 1962, p. 58-72. (Abstract available)

Efimov, V. A.
PREVENTION OF SURFACE DEFECTS ON STEEL INGOTS. Aug 63.
Order from BISI £7 15s BISI-3251

Trans. of Stal' (USSR) 1958 [v. 18] Steel Melting Suppl., p. 89-114.

Fujita, T., Sasakura, T., and Takeno, Y.
STUDY OF THE MULTIPLE-SPECIMEN CREEP RUPTURE TEST. Oct 63, 1250 words
Order from HB $4.40 HB-5979

Trans. of Tetsu to Hagane (Japan) 1963, v. 49, no. 3, p. 627-629.

Geller, Yu. A.
CARBIDE PHASES IN TOOL STEELS. Oct 63.
Order from BISI £6 BISI-3163

Trans. of mono. Instrumental'nye Stali (Tool Steels) [Moscow] 1955, p. 67-84. (Abstract available)

Geller, Yu. A.
HOT MECHANICAL WORKING OF HIGH-SPEED STEELS. Oct 63
Order from BISI £4 5s BISI-3165

Trans. of mono. Instrumental'nye Stali (Tool Steels) [Moscow] 1955, p. 322-332. (Abstract available)

Leporskii, V. V.
AZOVSTAL' PLANT IS THIRTY YEARS OLD. 22 Oct 63, 6p JPRS: 21546.
Order from OTS $1.25 in TT-63-31983 (p. 1-6)

Trans. of #Metallurg (USSR) 1963 [v. 8] no. 8, p. 3-4.

Linchevskii, B. V.
BEHAVIOR OF THE COMPONENTS OF STAINLESS STEEL DURING VACUUM MELTING. Oct 63, 2300 words
Order from HB $6.90 HB-5553

Trans. of Izvest[iya] V[ysshikh] U[chebnykh] Z[avedenii]. Chern[aya] Met[allurgiya] (USSR) 1963 [v. 6] no. 3, p. 70-76. (Abstract available)

Pook, P.
NEW OPEN-HEARTH SHOP AT THE LIEPAYA SARKANAIS METALURGS PLANT. 22 Oct 63, 4p JPRS: 21546.
Order from OTS $1.25 in TT-63-31983 (p. 29-32)

Trans. of Nauka i Tekhnika (Latvian SSR) 1963, no. 7, p. 34-35.

Röpke, W. D.
THE BEHAVIOUR OF HEAT-RESISTING FERRITIC STEELS IN THE CREEP TEST UNDER VARYING TEMPERATURES. Oct 63.
Order from BISI £5 BISI-3261

Trans. of Archiv für das Eisenhüttenwesen (West Germany) 1963, v. 34 [no. 3] p. 159-166. (Abstract available)

Rose, A. and Hougardy, H. P.
DEGENERATED STRUCTURE AS A TRANSFORMATION FORM OF AUSTENITE CLOSE TO THE STATE OF EQUILIBRIUM. Sep 63.
Order from BISI £6 5s BISI-3298

Trans. of Archiv für das Eisenhüttenwesen (West Germany) 1963, v. 34 [no. 4] p. 259-267.

Schöberl, A., Holzgruber, W., and Raisky, H.
MEASURES FOR INCREASING THE OUTPUT OF ELECTRIC ARC FURNACES, PT. I. Oct 63, 5300 words
Order from HB $12.80 HB-5718

Trans. of Stahl und Eisen (West Germany) 1962, v. 82, no. 20, p. 1335-1341. (Abstract available)

Shapiro, L. V., Zamkovskii, V. R., and Svets, V. E.
POTENTIAL SOURCES OF INCREASED LABOR PRODUCTIVITY IN THE ROLLING MILL INDUSTRY. 22 Oct 63, 3p JPRS: 21546.
Order from OTS $1.25 in TT-63-31983 (p. 33-35)

Abstract trans. of Referativnyi Sbornik. Ekonomika Promyshlennosti (USSR) 1963, no. 7. p. 92.

Tarmann, B.
THE PRESENT STATE OF CONTINUOUS CASTING IN EUROPE. Oct 63.
Order from BISI £2 15s BISI-3268

Trans. of Radex Rundschau (Austria) 1963, no. 2, p. 415-420. (Abstract available)

Nonferrous (except light) Metals

USSR INDUSTRIAL DEVELOPMENT: SOVIET NONFERROUS METALLURGY NO. 76. 17 Oct 63, 68p JPRS: 21489.
Order from OTS $2.00 TT-63-31957

Consists of 18 articles from 1963 issues of Russian journals and newspapers. Separate entries have been prepared for 8 articles. (Abstract available)

Balgozhin, Sh.
THE USE OF OXYGEN-ENRICHED AIR AT METALLURGICAL PLANTS. 17 Oct 63, 7p JPRS: 21489.
Order from OTS $2.00 in TT-63-31957 (p. 13-19)

Trans. of Narodnoe Khozyaistvo Kazakhstana (USSR) 1963 [v. 21] no. 7, p. 24-27. (Abstract available)

Bok, I., Darishev, M., and Urpekov, Sh.
PROBLEMS IN THE COMPLEX UTILIZATION OF THE KUSTANAI ORES. 17 Oct 63, 6p JPRS: 21489.
Order from OTS $2.00 in TT-63-31957 (p. 20-25)

Trans. of Narodnoe Khozyaistvo Kazakhstana (USSR) 1963 [v. 21] no. 7, p. 70-72.

Funke, V. F., Tumanov, V. I., and Trukhanova, Z. S.
EFFECT OF ALLOYING UPON THE STRUCTURE AND PROPERTIES OF TUNGSTEN-CARBIDE COBALT COMPOSITIONS. Oct 63, 4300 words
Order from HB $9.90 HB-6036

Trans. of Akad[emiya] Nauk SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izvest[iya]: Met[allurgiya] i Toplivo, 1961, no. 5, p. 101-108. (Abstract available)

Korogleev, L.
DEVELOPING THE USE OF THE OXYGEN BLAST ARMENIAN NONFERROUS METALLURGY. 17 Oct 63, 5p JPRS: 21489.
Order from OTS $2.00 in TT-63-31957 (p. 26-30)

Trans. of Promyshlennost' Armenii (USSR) 1963 [v. 6] no. 6, p. 47-49.

Plaskin, I. N. and Shapiro, I. S.
B. I. KOGAN'S ECONOMIC OUTLINES FOR THE RARE EARTHS [MOSCOW, 1961]. 17 Oct 63, 3p JPRS: 21489.
Order from OTS $2.00 in TT-63-31957 (p. 1-3)

Trans. of Gornyi Zhurnal (USSR) 1963, no. 8, p. 79-80.

Ranskii, B.
ACTIVITY OF THE KIROVGRAD COPPER-SMELTING COMBINE. 17 Oct 63, 7p JPRS: 21489.
Order from OTS $2.00 in TT-63-31957 (p. 53-59)

Trans. of Nauchno-Tekhnicheskie Obshchestva SSSR, 1963 [v. 5] no. 7, p. 46-48.

Savitskii, E. M., Baron, V. V., and Ivanova, K. N.
PHASE DIAGRAMS AND CERTAIN PROPERTIES OF ALLOYS OF THE NIOBIUM-MOLYBDENUM-TUNGSTEN SYSTEM (Diagramma Plavkosti i Nekotorye Svoistva Splavov Sistemy Niobii-Molibden-Vol'fram). [1963] [15]p (foreign text included) 15refs JPRS-R-1078-N.
Order from OTS, SLA, or ETC $1.60 AEC-tr-5576

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Metallurgiya i Toplivo, 1962, no. 2, p. 119-125.

Snurnikov, A. P. and Zelenskaya, L. I.
TRIAL OF FILTER-THICKENERS IN THE FILTRATION OF NEUTRAL PULPS OBTAINED BY THE LEACHING ZINC ROASTS (Ispytanie Fil'trov-Sgustitelei na Fil'tratsii Neitral'nykh Pul'p ot Vyshchelachivaniya Zinkovogo Ogarka). Apr 63 [10]p. 10 refs. RTS-2125.
Order from OTS, SLA, or ETC $1.10 TT-63-19125

Trans. of Tsvetnye Metally (USSR) 1959, v. 32, no. 5, p. 54-58.
Another trans. is available from PS $5.60 as PS CR-2825 [1960].

Sokolov, F.
ACTIVITIES OF THE IRKUTSK MICA PLANT. 17 Oct 63, 4p JPRS: 21489.
Order from OTS $2.00 in TT-63-31957 (p. 49-52)

Trans. of Nauchno-Tekhnicheskie Obshchestva SSSR, 1963 [v. 5] no. 7, p. 22-23.

Structural Metallurgy and Corrosion

RESEARCH INTO ZIRCONIUM HYDRIDE IN ZIRCALOY-2 AND ZrNb ALLOYS. Quarterly rept. no. 4, 1 July-30 Sep 62, on Contract 024-61-10 RDA. [1963] [22]p. 1ref.
Order from OTS, SLA, or ETC $2.60 EURAEC-451

Trans. of a rept. from Siemens-Schuckertwercke A.G., Erlangen (West Germany) n.d. (Abstract available)

Alekseeva, F. N., Matyushenko, R. S., Rakovskii, V. S., and Silaev, A. F.
ROLE OF MICRODISTORTIONS IN THE RECRYSTALLIZATION OF HIGH-MELTING METAL POWDER COMPACTS WHILE BEING SINTERED. Oct 63, 1400 words
Order from HB $3.50 HB-6009

Trans. of Akad[emiya] Nauk SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izvest[iya]: Met[allurgiya i] Gorn[oe] Delo, 1963, no. 1, p. 97-99. (Abstract available)
Another trans. is available from SIC $68.00/year in Russian Metallurgy and Mining, 1963, no. 1.

Horvath, Jozsef.
MECHANISM OF ANAEROBIC MICROBIOLOGICAL CORROSION. II. CORRELATIONS BETWEEN pH, CORROSION RATE, AND PRECIPITATION ZONE OF SOLID CORROSION PRODUCTS OF IRON AND STEEL (Beiträge zum Mechanismus der Anaeroben Mikrobiologischen Korrosion, II.). [1963] 17p 7refs
Available on loan from SLA TT-63-20711

Trans. of Magyar Kemiai Folyoirat (Hungary) 1962, v. 68 [no. 2] p. 54-59. (Abstract available)

Ipat'ev, V. V. and Sibirskaya, V. V.
THE RATE OF SCALE FORMATION ON METALS AND ALLOYS: ON THE KINETICS OF SCALE FORMATION ON IRON ALLOYS WITH CHROMIUM AT HIGH TEMPERATURES IN THE ATMOSPHERE OF WATER VAPOR (THE STRUCTURE AND COMPOSITION OF THE SCALE FORMED) (Skorost' Okalinoobrazovaniya na Metallakh i Splavakh: [K Kinetike Okalinoobrazovaniya na Splavakh Zheleza s Khromom pri Vysokikh Temperaturakh v Atmosfere Vodyanogo Para. Struktura i Sostav Obrazuyushchei Okaliny]) tr. by A. Pingell. 1963 [26]p 21refs. NRL Trans. no. 926.
Order from OTS, SLA, or ETC $2.60 TT-63-19243

Partial trans. (excerpts) of Leningrad U. Uchenye Zapiski (USSR) 1957, no. 227, p. 5-47.

Kozyrskii, G. Ya., Kononenko, V. A., and Okrainets, P. N.
ETUDE DU MECANISME DE DEFORMATION DU NICKEL PAR REFLEXION DES GRAINS ISOLES LORS DU FLUAGE, tr. by A. Khazov. 1961 [18]p 3 refs. CEA Trans. no. R 1390 (text in French).
Order from OTS, SLA or ETC $1.60 TT-62-13802

Trans. in French of a Russian article from an unidentified source, n.d.

NUCLEAR PHYSICS AND NUCLEAR CHEMISTRY

[RESEARCH INTO] THE DIFFUSION OF INERT GASES IN SOLID BODIES. Quarterly rept. no. 5 (2d year) 1 July-30 Sep 62, on Contract 064-61-8 RDD. [1963] [4]p.
Order from OTS, SLA, or ETC $1.10 EURAEC-457

Trans. of a rept. from Hahn-Meitner-Institut für Kerforschung, Berlin (West Germany) n.d. (Abstract available)

Chirikov, B. V.
KINETICS OF STIMULATED MOSSBAUER RADIATION (Kinetika Indutsirovannogo Mossbauerovskogo Izlucheniya). AID Work Assignment no. 14. 9 Aug 63 [12]p 12refs AID rept. T-63-106.
Order from OTS, SLA, or ETC $1.60 TT-63-23810

Trans. of #Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1963, v. 44, no. 6, p. 2016-2022. (Abstract available)

Gligorijevic, J., Pavlovic, B., and Novcic, D.
THE EFFECT OF ULTRASOUND OF FREQUENCIES 800 AND 3000 kHz ON THE DECONTAMINATION OF SOME SURFACES CONTAMINATED WITH IODINE-131. 1963, 12p 4refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 5-16)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 65-74.

Starodubtsev, S. V. and Blaunshtein, I. M.
THE CHANGE IN THE MAGNETIC PROPERTIES OF SOLID INORGANIC COMPOUNDS IN A FIELD OF INTENSE γ-RADIATION. 19 June 63 [11]p. 8 refs. FTD-TT-63-424.
Order from OTS, SLA, or ETC $1.60 TT-63-23820

Unedited rough draft trans. of mono. Vsesoyuznoe Soveshchanie po Radiatsionnoi Khimii (All-Union Conference on Radiation Chemistry) (no. 2) Moscow, 10-14 Oct 60. Trudy, 1962, p. 683-687.

Vlasov, N. A. and Tsirel'son, E. A.
ANGULAR DISTRIBUTION OF -QUANTA FORMED DURING THE ANNIHILATION OF POSITRONS (Uglovoe Raspredelenie γ-Kvantov, Abrazuyushchikhsya pri Annigilyatsii Positronov) tr. by A. Pingell. 1951, 6p 4refs NRL Trans. no. 370.
Order from OTS or SLA $1.10 TT-63-24372

Trans. of Akademiya Nauk SSSR. Doklady, 1948, v. 59, no. 5, p. 879-882.
Another trans. is available from SLA as RT-899, 6p. (Abstract available)

Zakharov, Yu. A., Boldyrev, V. V. and others.
A STUDY OF THE MECHANISM OF THE EFFECT OF PRIOR IRRADIATION ON THERMAL DECOMPOSITION OF SILVER OXALATE CONTAINING A CADMIUM ADMIXTURE. [1963] [8]p. (figs. omitted) 9 refs.
Order from OTS, SLA, or ETC $1.10 AEC-tr-5673

Trans. of Akademiya Nauk SSSR. Doklady, 1962, v. 145, no. 1, p. 122-124.

Instruments and Installations

Ratner, A. M. and Kukushkin, L. S.
ON THE QUESTION OF THE ENERGY RESOLUTION OF SCINTILLATION COUNTERS. [1963].
Order from SIC $12.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 192-197. (Abstract available)

Tret'yakov, E. F., Kondrat'ev, L. N. and others.
DOUBLE NONFERROUS β-SPECTROMETER WITH A TOROIDAL FIELD, tr. by Helen Basil. Jan 63 [17]p 6refs NP-11864.
Order from OTS, SLA, or ETC $1.60 AEC-tr-5656

Trans. of unidentified mono., Moscow, 1962, (Abstract available)

Nuclear Engineering

ELECTRIC SLAG WELDING OF STEEL USED FOR REACTORS: Quarterly rept. no. 3, 1 Jan-31 Mar 62, on Contract 046-61-3 RDA. [1963] 8p.
Order from OTS, SLA, or ETC $1.10 EURAEC-315

Trans. of a rept. from Schweisstechnische Lehr- und Versuchsanstalt, Dusiburg (West Germany) 18 Apr 62. (Abstract available)

RESEARCH ON THE THERMAL EXPANSION OF UO_2, PuO_2 AND UO_2-PuO_2. Special rept. no. 6. [1963] 33p 7refs BN-6206-01
Contract 027-60-7 RDB
Order from OTS, SLA, or ETC $3.60 EURAEC-43

Trans. of a rept. from Centre d'Étude de l'Énergie Nucléaire, Brussels (Belgium) and Société Belge pour l'Énergie Nucléaire, Brussels, Jun 62.

SOVIET NUCLEAR RESEARCH REACTOR VVR-Ts: SUMMARY OF DATA. Rept. no. 8 on AID Work Assignment no. 31. 3 Jul 63 [22]p 5refs AID Rept. P-63-88.
Order from OTS, SLA, or ETC $2.60 TT-63-23535

(Abstract available)

STATISTICAL METHODS FOR HOT CHANNEL AND HOT SPOT CALCULATION. Quarterly rept. [6] 1 Apr-30 Jun 62. [1963] 37p FN-E-27.
Contract 035-60-11 RDI
Order from OTS, SLA, or ETC $3.60 EURAEC-406

Trans. of a rept. from FIAT, S. A., Turin (Italy) 31 Jul 62. (Abstract available)

STUDY OF URANIUM MONOCARBIDE SHAPING AND IRRADIATION. Quarterly rept. no. 7, 1 Jul-30 Sep 62. [1963] 10p
Contract [012-60-5 RDF (3748)]
Order from OTS, SLA, or ETC $1.10 EURAEC-477

Trans. of a rept. from Commissariat à l'Énergie Atomique, Paris (France) 15 Oct 62. (Abstract available)

Mansard, B. and Rousset, P.
STUDY OF URANIUM [MONO]CARBIDE [SHAPING] AND IRRADIATION [AND] EXTRUSION SINTERING OF MIXTURES OF URANIUM-GRAPHITE POWDERS. Quarterly rept. no. 6 (with appendix) 1 Apr-30 Jun 62. [1963] 50p
Contract 012-60-5 RDF (3748)
Order from OTS, SLA, or ETC $4.60 EURAEC-387

Trans. of a rept. from Commissariat à l'Énergie Atomique, Paris (France) 2 Jul 62.

Whitwham, D., Boghen, J., and Herenguel, J.
PREPARATION AND IRRADIATION OF U-UC CERMETS AND STOICHIOMETRIC UC: SINTERING-EXTRUSION OF MIXTURES OF URANIUM GRAPHITE POWDERS. Quarterly rept. no. 2 annex, Mar-Jun 61. [1963] 17p 1ref
Contract [012-60-5 RDF (3748)]
Order from OTS, SLA, or ETC $1.60 EURAEC-126

Trans. of a rept. from Commissariat à l'Énergie Atomique, Paris (France) 13 Jun 61.

PHYSICS

ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND TECHNICAL JOURNALS NO. 332 (PHYSICS AND MATHEMATICS SERIES). 25 Oct 63, 9p JPRS: 21594.
Order from OTS $0.50 TT-63-41004

Consists of abstracts of articles from selected scientific and technical journals of Czechoslovakia and Hungary.

ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND TECHNICAL JOURNALS NO. 339 (PHYSICS AND MATHEMATICS SERIES). 4 Nov 63, 8p JPRS: 21714.
Order from OTS $0.50 TT-63-41054

Consists of abstracts of articles from selected scientific and technical journals of East Germany and Hungary.

USSR SCIENTIFIC ABSTRACTS: PHYSICS AND MATHEMATICS NO. 5. 6 Nov 63, 147p JPRS: 21752.
Order from OTS $2.75 TT-63-41076

Consists of abstracts of articles from USSR scientific and technical journals.

Bunkin, F. V.
ON THE CONCEPT OF EFFECTIVE TEMPERATURE FOR STATIONARY NONEQUILIBRIUM SYSTEMS, tr. by L. J. Holtschlag and B. W. Kuvshinoff. 4 Sep 63, 17p 16refs APL/JHU TG 230-T388.
Contract NOw 62-0604-c
Order from OTS $0.50 TT-63-11718

Trans. of #Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii. Radiofiz[ika] (USSR) 1961, v. 4, no. 3, p. 496-507. (Abstract available)

Goncharenko, A. M. and Sotskii, B. A.
ON THE SELF-EXCITATION CONDITION IN A PLANE-PARALLEL LAYER, tr. by L. J. Holtschlag. 22 Aug 63, 4p 4refs APL/JHU TG 230-T370.
Contract NOw62-0604-c
Order from OTS $0.50 TT-63-11714

Trans. of Akad[emiya] Navuk BSSR [Minsk]. Dokl[ady] 1962, v. 6, p. 223-225. (Abstract available)

Ivanov, A. P., Stepanov, B. I. Berkovskii, B. M., and Katsev, I. L.
NONLINEAR APPROXIMATION OF THE EFFECT OF INHOMOGENEITIES ON THE BEHAVIOR OF LIGHT IN A PLANE-PARALLEL LAYER, tr. by L. J. Holtschlag. 14 Aug 63, 6p 1ref APL/JHU TG 230-T371.
Contract NOw 62-0604-c
Order from OTS $0.50 TT-63-11716

Trans. of Akad[emiya] Navuk BSSR [Minsk]. Doklady, 1962, v. 6, no. 3, p. 147-150. (Abstract available)

Samson, A. M.
ON THE GENERATION CONDITIONS IN A PLANE-PARALLEL LAYER, tr. by B. W. Kuvshinoff. 6 Sep 63, 7p 9refs APL/JHU TG 230-T372.
Contract NOw 62-0604-c
Order from OTS $0.50 TT-63-11722

Trans. of Akad[emiya] Navuk BSSR [Minsk]. Dokl[ady] 1962, v. 6, no. 3, p. 151-154. (Abstract available)

Stepanov, B. I.
POSSIBLE AND STABLE STATES OF STATIONARY GENERATION IN A PLANE-PARALLEL LAYER, tr. by L. J. Holtschlag. 23 Aug 63, 6p 5refs APL/JHU TG 230-T377.
Contract NOw 62-0604-c
Order from OTS $0.50 TT-63-11724

Trans. of Akad[emiya] Navuk BSSR [Minsk]. Dokl[ady] 1962, v. 6, no. 10, p. 629-632.

Stepanov, B. I. and Rubanov, A. S.
CALCULATION OF THE INDICATIONS OF A RECEIVER USING OPTICAL AMPLIFIERS, tr. by L. J. Holtschlag. 13 Aug 63, 8p 5refs APL/JHU TG 230-T378.
Contract NOw 62-0604-c
Order from OTS $0.50 TT-63-11721

Trans. of Akad[emiya] Navuk BSSR [Minsk]. Dokl[ady] 1962, v. 6, no. 9, p. 372-375.

Acoustics

Kallistratova, M. A.
EXPERIMENTAL INVESTIGATION OF SOUND WAVE SCATTERING IN THE ATMOSPHERE. 25 June 63 [79]p. 51 refs. FTD-TT-63-441.
Order from OTS, SLA or ETC $7.60 TT-63-23650

Unedited rough draft trans. of [Akademiya Nauk SSSR]. Institut Fiziki Atmosfery. Trudy [1962] no. 4, p. 203-256. (Abstract available)

Kleesattel, C.
"VIBRATOR AMPULLACEUS": A LONGITUDINAL MECHANICAL RESONATOR FOR VERY HIGH AMPLITUDE GENERATION AND TRANSDUCER POWER GAIN. [1963] 40p 10refs
Order from SLA $3.60 TT-63-20618

Trans. of Acustica (Switzerland) 1962, v. 12, no. 5, p. 322-334. (Abstract available)

Electricity and Magnetism

Ilyukhin, V. S.
THE ELECTROMOTIVE FORCE OF A PAIR OF METALS COMPRESSED BY A SHOCK WAVE (Elektrodvizhushchava Sila Pary Metallov Szhacykh Udarnov Volnov). [1963] 7p (figs omitted) 5refs
Available on loan from SLA TT-63-18944

Trans. of [Zhurnal] Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1962, no. 5, p. 175-176.

Kadkii, V. A.
DEVICE FOR THE OBTAINMENT OF STATIC MAGNETIC CHARACTERISTICS OF FERROMAGNETIC MATERIALS. 21 June 63 [6]p FTD-TT-63-435
Order from OTS, SLA, or ETC $1.10 TT-63-23656

Unedited rough draft trans. of Russian patent 147,672, appl. no. 697,260/24, 11 Feb 61.

Semenov, G. F.
CONCERNING ONE POSSIBILITY OF SIMPLIFYING THE CALCULATIONS OF ELECTROMAGNETIC FIELDS. 18 Oct 63, 6p 2refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 164-169)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 191-192. (Abstract available)

Electronics

Kadomtsev, B. B.
PLASMA INSTABILITY IN A MAGNETIC FIELD IN THE PRESENCE OF ION BEAMS. [1962] [7]p. 1 ref. [DSIR] NLL M. 2399.
Order from OTS, SLA, or ETC $1.10 TT-63-15684

Trans. of a Russian language article from an unidentified source, n. d.

Likhachev, M.
THE IMPORTANT FACTOR OF TECHNICAL PROGRESS, tr. by J. B. 15 May 63, 7p
Order from OTS, SLA, or ETC $1.10 TT-63-19626

Trans. from Pravda [Moscow] (USSR) 1962, no. 329, 25 Nov.

Skrivanek, J. and Kuzmiak, M.
SENSIBILITÉ LOCALE DES PHOTOCATHODES DE PHOTOMULTIPLICATEURS (Local Sensitivity of Photocathodes and Photomultipliers) tr. by S. Tarassenko. 6 June 61 [14]p. 1 ref. CEA Trans. no. R 1367 (text in French).
Order from OTS, SLA, or ETC $1.60 TT-63-23540

Trans. in French of [Chekhoslovatskii Fizicheskii Zhurnal] 1959, v. 9, p. 112-117.

Zyuryukin, Yu. A., Trubetskov, D. I., and Shevchik, V. N.
EFFECT OF CYCLOTRON RESONANCE ON THE OPERATION OF MICROWAVE BEAM DEVICES OF THE MAGNETRON TYPE. 18 Oct 63, 22p 4refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 1-22)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 117-126. (Abstract available)

Yakhontova, V. E.
THE PART PLAYED BY CASCADE TRANSITIONS IN THE EXCITATION OF HELIUM LINES, tr. by M. Archer. Apr 63 [20p] 21refs AERE Trans 951.
Order from OTS, SLA, or ETC $1.60 TT-63-23710

Trans. of Leningrad U. Vestnik (USSR) 1959, v. 14, no. 10, Seriya Fiziki i Khimii, no. 2, p. 27-42. (Abstract available)

Zapesochnyi, I. P.
DETERMINATION OF THE EXCITATION FUNCTIONS OF THE ENERGY LEVELS OF Hg ATOMS ACCORDING TO OPTICAL EXCITATION FUNCTIONS (Opredelenie Funktsii Vozbuzhdeniya Energeticheskikh Urovnei Atomov Rtuti no Opticheskim Funktsiyam Vozbuzhdeniya) tr. by Myron Ricci. June 62 [44]p. 5 refs. AmMetSoc-T-R-396+; AD-297 209.
Order from OTS, SLA or ETC $4.60 TT-63-15665

Trans. of Leningrad U. Vestnik (USSR) 1954 [v. 9] no. 11, p. 67-93. (Abstract available)

Optics

Kats, L. I. and Traitel'man, L. A.
USE OF A BRIDGE INTERFEROMETER FOR THE DETERMINATION OF THE REFRACTIVE INDEX OF DIELECTRICS IN THE MILLIMETER BAND. 18 Oct 63, 13p 9refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 58-70)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 143-147. (Abstract available)

Sergeev, A.
INFRARED TECHNOLOGY IN COSMOS. 21 June 63 [5]p. FTD-TT-63-444.
Order from OTS, SLA, or ETC $1.10 TT-63-23649

Unedited rough draft trans. from Trud [Moscow] (USSR) 1963, no. 56, 7 Mar, p. 3. (Abstract available)

Toropova, T. P.
ON MEASURING THE POLARIZATION OF LIGHT IN FOG (Ob Izmerenii Polyarizatsii Sveta v Tumane). 2 Aug 63 [7]p. 5 refs. AID Rept. T-63-102; NASA N63-19396.
Order from OTS, SLA, or ETC $1.10 TT-63-23587

Trans. of Akademiya Nauk Kazakhskoi SSR [Alma Ata]. Astrofizicheskii Institut. Trudy, 1962, v. 3, p. 144-148.

LATTICE DYNAMICS: ANNOTATED BIBLIOGRAPHY OF SOVIET LITERATURE. Report on AID Work Assignment no. 41. 2 Aug 63 [38]p 69refs AID Rept. B-63-101; NASA N63-20205
Order from OTS, SLA, or ETC $3.60 TT-63-23588 (Abstract available)

Albert, Ludwig and Jaenicke, Walther.
CONCERNING THE NEEDLE GROWTH WITH THE OXIDATION OF COPPER [Über das Nadelwachstum bei der Oxydation von Kupfer, II]. Pt. 2 on Whisker-Growth during the Oxidation of Copper. [1963] 32p (figs formulae refs omitted)
Available on loan from SLA TT-63-20247

Trans. in manuscript of Zeitschrift für Naturforschung (West Germany) 1960, v. 15a, p. 59-65.

Andress, Bernhard.
ON THE LUMINESCENCE AND ABSORPTION OF ZnO CRYSTALS. [1963] 18p (figs omitted) 21refs
Available on loan from SLA TT-63-20348

Trans. of Zeitschrift für Physik (West Germany) 1962, v. 170, p. 1-21. (Abstract available)

Barta, C. and Kuhn, A.
INFLUENCE OF TEMPERATURE ON THE LUMINESCENCE EFFICIENCY OF $CaWO_4$. [1963].
Order from SIC $12.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 5-7. (Abstract available)

Barta, C., Petru, F., and Hajek, B.
SYNTHESIS OF SCANDIUM-OXIDE SINGLE CRYSTALS. [1963]
Order from SIC $12.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 17-19. (Abstract available)

Bauer, J.
SYNTHESIS OF CHRYSOBERYL AND TAAFEIT. [1963].
Order from SIC $12.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 20-22. (Abstract available)

Bogenschütz, A. F., Bergmann, F., and Jentzsch, J.
AN OPTICAL METHOD OF MEASURING THE THICKNESS OF THIN FILMS. [1953] [22p] 7 refs
Order from SLA $2.60 TT-63-20580

Trans. of Zeitschrift für Angewandte Physik (West Germany) 1962, v. 14, no. 8, p. 469-475. (Abstract available)

Durovic, S. and Matherny, M.
DISTRIBUTION OF TRACE IMPURITIES DURING CRYSTALLIZATION OF MELTS. [1963].
Order from SIC $18.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 81-88. (Abstract available)

Eckstein, J. and Grobner, P.
CONTRIBUTION TO THE TECHNOLOGY OF SINGLE CRYSTAL GROWING. [1963].
Order from SIC $25.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 109-123. (Abstract available)

Gorbatyi, N. A. and Shuppe, G. N.
DEPENDENCE OF ADSORPTION BONDS ON METAL MONOCRYSTALS UPON THE CRYSTALLOGRAPHIC ORIENTATION (K Voprosu o Zavisimosti Adsorbtsionnykh Svyazei na Metallicheskom Monokristalle ot Kristallograficheskikh Napravlenii) tr. by R. M. Flynn. [1963] [11]p
Order from OTS on loan TT-63-23768

Unedited partial trans. (p. 1365-1367, 1374-1375) of Zhurnal Tekhnicheskoi Fiziki (USSR) 1955, v. 25, no. 8, p. 1364-1375.

Guinier, A[ndré].
X-RAY DIFFRACTION IN CRYSTALS, IMPERFECT CRYSTALS, AND AMORPHOUS BODIES, tr. by Paul Lorrain and Dorothee Sainte-Marie Lorrain. Aug 63, 378p.
Order from W. H. Freeman and Co., 660 Market St., San Francisco, 4, Calif. $11.00

Partial trans. (pts. 5ff) of mono. Théorie et Technique de la Radiocristallographie, Paris, 1956.

Hanzlik, J.
PREPARATION OF TUNGSTEN TRIOXIDE SINGLE CRYSTALS. [1963].
Order from SIC $18.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) no. 3) Prague, 1960. [Proceedings] p. 129-135. (Abstract available)

Kraus, J.
OSCILLATIONS IN RINGS.]1963].
Order from SIC $12.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 168-176. (Abstract available)

Kuhn, A. and Barta, C.
INFLUENCE OF IMPURITIES ON THE DECAY OF LUMINESCENCE IN CALCIUM TUNGSTATE SINGLE CRYSTALS. [1963].
Order from SIC $12.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 177-180. (Abstract available)

Kuznetsov, A. V.
APPLICABILITY OF CORRECTIVE FORMULAE TO THE COMPUTATION OF SECONDARY EXTINCTION (O Primenimosti Korrektirovochnykh Formul' dlya Ucheta Vtorichnoi Ekstinktsii). [1962] [5]p. 8 refs.
Order from OTS or SLA $1.10 TT-62-33215

Trans. of #Fiz[ika] Metallov i Metallovedenie (USSR) 1962, v. 13, no. 2, p. 306-308.

Lemmlein, G. G. and Dukova, E. D.
STUDY OF THE DYNAMICS OF THE HELICAL GROWTH OF CRYSTALS. [1963].
Order from SIC $18.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 215-223. (Abstract available)

Prokoshkin, D. A. and Sidunova, O. I.
NEW THERMODIFFUSION DATA ON THE CHROMIUM-MOLYBDENUM SYSTEM. 12 May 63 [9]p. 6 refs. FTD-TT-63-266.
Order from OTS, SLA, or ETC $1.10 TT-63-23214

Unedited rough draft trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Mashinostroenie (USSR) 1960, no. 5, p. 101-105. (Abstract available)

Rez, I. S., Rusakov, L. Z., and Stoikov, G. N.
GROWTH OF PIEZOELECTRIC SINGLE CRYSTALS IN THE USSR. [1963].
Order from SIC $20.00

Trans. of mono. Konference o Monokrystalech (Conference on Single Crystals) (no. 3) Prague, 1960. [Proceedings] p. 254-261. (Abstract available)

Sadovskii, V. D.
OBSERVATION OF DISLOCATION STRUCTURES IN THE ALLOY KhN77TYu R. 17 May 63 [8]p. 4 refs. FTD-TT-63-322. AD-409 008
Order from OTS, SLA, or ETC $1.10 TT-63-23205

Unedited rough draft trans. of #Metallovedenie i Termicheskaya Obrabotka Metallov (USSR) 1962, no. 9, p. 2-5. (Abstract available)

Savitskii, E. M., Kopetskii, Ch. V. and others.
OBTAINMENT AND PROPERTIES OF MONOCRYSTALS OF THE HIGH-MELTING METALS, TUNGSTEN, RHENIUM, TANTALUM, MOLYBDENUM AND NIOBIUM. 6 May 63 [7]p. FTD-TT-63-270; AD-409 270.
Order from OTS, SLA, or ETC $1.10 TT-63-23215

Unedited rough draft trans. of Issledovaniya po Zharpoprochnym Splavam (USSR) 1962, v. 9, p. 192-194. (Abstract available)

Thermodynamics

Evseev, A. M.
RADIAL DISTRIBUTION OF ATOMS IN A LIQUID. [1962] [10]p. 4 refs. FRI Trans. no. 173; [DSIR] NLL M. 6164.
Order from OTS or SLA $1.10 TT-62-25931

Trans. of Akad[emiya] Nauk SSSR. Doklady [1960, v. 131, no. 4, p. 789-792].
Also available from FRI as FRI Trans-173.

Rancic, Dusan M.
A NEW TEMPERATURE SCALE BASED UPON THE KINETIC THEORY OF GASES. 1963, 4p 6refs PL-480 Comm.
Order from OTS $1.25 in TT-62-11757/2-3 (p. 115-118)

Trans. of [Srpsko] Hemisko Drustvo [Belgrad]. Glasnik (Yugoslavia) 1962, v. 27, no. 2/3, p. 169-171.

Udovichenko, A. Kh., Reshetov, G. I. and others.
AUTOMATIC ELECTRONIC MULTIPOINT INSTRUMENT FOR CONTROLLING AND REGULATING TEMPERATURE. 22 June 63 [6]p FTD-TT-63-430
Order from OTS, SLA, or ETC $1.10 TT-63-23669

Unedited rough draft trans. of Russian patent 147,044, appl. no. 669,289/26, 6 June 60.

Zysina-Molozhen, L. M.
THE CALCULATION OF A THERMAL BOUNDARY LAYER IN THE FLOW OF A COMPRESSIBLE GAS, tr. by Ingeborg V. Baker. 10 Apr 63 [14]p 4refs RSIC-11; AD-404 916
Order from OTS, SLA, or ETC $1.60 TT-63-19565

Trans. of #Inzhenerno-Fizicheskii Zhurnal (USSR) 1962, v. 5, no. 6, p. 21-26. (Abstract available)
An unedited rough draft trans. is available from OTS or SLA $1.10 as 63-19312, FTD-TT-63-84, 3 Apr 63 [10]p.

Wave Propagation

Bäyer, Hans J. von and Knechtli, Ronald.
TREATMENT OF MULTICONDUCTOR SYSTEMS WITH TRANSVERSE ELECTROMAGNETIC WAVES AT HIGH FREQUENCIES (Uber die Behandlung von Mehrleitersystemen mit Transversal Elektromagnetischen Wellen bei Hohen Frequenzen). [1963] 15p 9refs
Order from SLA $1.60 TT-63-20352

Trans. of Zeitschrift für Angewandte Mathematik und Physik (Switzerland) 1952, v. 3, p. 271-286. (Abstract available)

Lyubimov, L. A. and Sokolov, V. M.
GYROTROPIC DIELECTRIC WAVEGUIDE OF ROUND CROSS SECTION. 18 Oct 63, 13p 2refs JPRS: 21504.
Order from OTS $3.50 in TT-63-31965 (p. 45-57)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 2, p. 136-142. (Abstract available)

Mikhailova, G. A. and Kurakina, T. I.
THE PHASE VELOCITY OF ELECTROMAGNETIC WAVES IN THE 1-25 KC RANGE, tr. by C. R. Haave. 5 Sep 63, 7p 8refs APL/JHU TG 230-T402.
Contract NOw 62-0604-c
Order from OTS $0.50 TT-63-11712

Trans. of #Geomagnetizm i Aeronomiya (USSR) 1963, v. 3, no. 2, p. 223-226. (Abstract available)

Miya, K.
STUDY OF CHARACTERISTICS OF IONSPHERICALLY PROPAGATED WAVES FOR DESIGN OF RADIO COMMUNICATION CIRCUITS: SELECTED PARTS, tr. by M. Kawai. Mar 63 [28]p (figs omitted) 8refs
Order from OTS, SLA, or ETC $2.60 TT-63-23696

Trans. of unidentified Japanese mono. (thesis) n.p., July 52, p. 7-23, 118-121. (Abstract available)

RESEARCH METHODS, TECHNIQUES AND EQUIPMENT

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: [SELECTED] TRANSLATIONS NO. 49. 19 Sep 63, 54p JPRS: 21150.
Order from OTS $1.50 TT-63-31795

Trans. from Kuang Ming Jih Pao (Chinese People's Republic) 1963, 30 Jul, p. 1 and 4; Jen Min Jih Pao (Chinese People's Republic) 1963, 6 Aug, p. 5; Chung Kuo Ning Yeh K'o Hsüeh (Chinese People's Republic) 1963, no. 4, p. 45-48.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: [SELECTED] TRANSLATIONS NO. 56. 24 Oct 63, 85p 5refs JPRS: 21587.
Order from OTS $2.25 TT-63-31998

Consists of 11 articles from 1963 issues of Communist Chinese journals and newspapers. Separate entries have been prepared for the individual articles.

CYBERNETICS SEMINARS AT THE MOSCOW STATE UNIVERSITY (MGU). 14 Oct 63, 3p JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 602-604)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9.

CYBERNETICS SEMINARS IN NOVOSIBIRSK. 14 Oct 63, 2p JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 605-606)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9.

ORGANIZATION, APPLICATION OF COMPUTERS IN CODING AND MACHINE TRANSLATION. Foreign Developments in Machine Translation and Information Processing no. 138. 30 Aug 63, 64p 28refs JPRS: 20860
Order from OTS $1.75 TT-63-31647

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 2, p. 3-6, 23-28, 36-49.

TRANSLATED POLISH PATENTS (FIRST CLAIM ONLY). Dec 63 [100p]
Order from OTS $2.25 TT-63-11422

Trans. of Polish patents including patent number, class number, name and residence of patentee and patent owner, title, filing and priority date, and first claim of patents from the following years: 1957, 1 patent; 1960, 15 patents; 1961, 54 patents; 1962, 230 patents.

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY NO. 50. 20 Sep 63, 39p JPRS: 21166.
Order from OTS $1.25 TT-63-31800

Consists of 5 articles from 1963 issues of Communist Chinese journals. Separate entries have been prepared for the individual articles.

Aliev, G. A., Buslenko, N. P., Klimov, G. P., and Nazarenko, A. I.
MODELING THE PRODUCTION PROCESS OF AN AUTOMATED MILL FOR THE FURNACE-WELDING OF PIPE. 14 Oct 63, 76p 10refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 382-459)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9.

Balandina, N. A.
REDUCTION OF THE ANALYZER IN MACHINE TRANSLATION. 14 Oct 63, 19p 3refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 498-516)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Belonogov, G. G. and Frolov, G. D.
EMPIRICAL DATA ON THE DISTRIBUTION OF LETTERS IN RUSSIAN WRITTEN SPEECH. 14 Oct 63, 20p 2refs
Order from OTS $7.25 in TT-63-31941 (p. 517-536)
Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Biryukov, B. V.
CONFERENCE ON PHILOSOPHICAL PROBLEMS OF CYBERNETICS. 14 Oct 63, 13p JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 611-623)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9, (Abstract available)

Brudno, A. L.
AN EXAMPLE OF THE VALUE OF OPTIMAL PLANNING. 14 Oct 63, 4p JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 557-560)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Buslenko, N. P.
MODELING PRODUCTION PROCESSES ON ELECTRONIC COMPUTERS. 14 Oct 63, 53p 4refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 329-381)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Gavrilov, T. L.
CYBERNETICS IN THE FAR EAST STATE UNIVERSITY. 14 Oct 63, 2p. JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 609-610)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9.

Glebov, N. I.
ON THE STRUCTURE OF AN R-CRITERIA EQUIVALENCE GLASS. 14 Oct 63, 31p 3refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 186-216)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Golunkov, Yu. V.
ALGORITHMIZATION AND PROGRAMMING THE PROBLEM OF SEARCHING IN A MAZE. 14 Oct 63, 11p 1ref JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 284-294)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9.

Horejs, J.
TRANSFORMATIONS DETERMINED BY FINITE AUTOMATA. 14 Oct 63, 8p 2refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 24-31)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9.

Kloss, B. M. and Nechiporuk, E. I.
THE CLASSIFICATION OF THE FUNCTIONS OF MANY-VALUED LOGIC. 14 Oct 63, 19p 2refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 32-50)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Kondratov, A. M.
THEORY OF INFORMATION AND POETICS: THE ENTROPY OF THE RHYTHM OF RUSSIAN SPEECH. 14 Oct 63, 11p JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 546-556)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Lallemand, A., Duchesne, M. and others.
THE PRESENT POSSIBILITIES OF ELECTRONIC PHOTOGRAPHY. Paper from Galactic and Extragalactic Research and Electronic Photography. [1963] 20p. 9 refs.
Order from SLA $1.60 TT-63-18161

Trans. of mono. International Symposium of the National Center for Scientific Research, Paris, 30 June-3 July 59. [proceedings] p. 16-26. (Abstract available)

Lavrent'ev, M. A.
DEVELOPMENT OF SCIENCE IN SIBERIA AND IN THE FAR EAST. 3 June 63 [10]p. FTD-TT-63-234.
Order from OTS, SLA, or ETC $1.10 TT-63-23732

Unedited rough draft trans. of A[kademiya] N[auk] SSSR. Vestnik, 1957 [v. 27] no. 12, p. 3-7.

Lebedev, A. A.
FIVE YEARS OF THE LENINGRAD CYBERNETICS SECTION. 14 Oct 63, 2p JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 607-608)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9.

Lupanov, O. B.
A COMPARISON OF TWO TYPES OF SOURCES. 14 Oct 63, 10p 8refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 566-575)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Lyapunov, Aleksei Andreevich and Yablonskii, S. V.
THEORETICAL PROBLEMS OF CYBERNETICS. 14 Oct 63, 23p JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 1-23)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Lyapunov, Aleksei Andreevich, ed.
PROBLEMS OF CYBERNETICS, 1963, NO. 9. 14 Oct 63, 623p 181refs JPRS: 21448.
Order from OTS $7.25 TT-63-31941

Trans. of #Problemy Kibernetiki (USSR) 1963, no. 9, p. 1-360.
Another trans. of p. 241-264 is available from OTS or SLA $2.60 as TT-63-23816, NIH-8-8-63, 21 Aug 63, 29p.

Markov, Al. A.
CONDITIONS OF COMPLETENESS FOR IRREGULAR CODES. 14 Oct 63, 6p 3refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 576-481)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Medvedev, Zh. A.
"ERRORS" IN THE REPRODUCTION OF NUCLEIC ACIDS AND PROTEINS AND THEIR BIOLOGICAL SIGNIFICANCE. 14 Oct 63, 38p 89refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 460-497)

Trans. of #Problemy Kibernetiki (USSR) 1963, no. 9, p. 241-264.
Another trans. is available from OTS or SLA $2.60 as TT-63-23816, NIH-8-8-63, 21 Aug 63, 29p.

Nechiporuk, E. I.
THE SYNTHESIS OF TWO-THERMAL SWITCHING CIRCUITS. 14 Oct 63, 16p 3refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 51-66)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9.

Nedoma, J., Perez, A., and Tondl, L.
CYBERNETICS IN CZECHOSLOVAKIA. 1 Nov 63, 15p JPRS: 21700.
Order from OTS $0.50 TT-63-41049

Trans. of Nova Mysl (Czechoslovakia) 1963, no. 7, p. 815-826.

Podlovchenko, R. I.
ON A PROBLEM WITH CONTRACTED CYCLES.
14 Oct 63, 26p 5refs JPRS-21448.
Order from OTS $7. 25 in TT-63-31941 (p. 217-242)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Solov'ev, N. A.
THE QUESTION OF ESSENTIAL DEPENDENCE IN FUNCTIONS OF ALGEBRAIC LOGIC. 14 Oct 63, 4p 5refs JPRS: 21448.
Order from OTS $7. 25 in TT-63-31941 (p. 582-585)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Sorkin, Yu. I.
THE THEORY OF DEFINING RELATIONS FOR AUTOMATA. 14 Oct 63, 46p 12refs JPRS: 21448.
Order from OTS $7. 25 in TT-63-31941 (p. 67-112)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Spongnii, A. A.
THE COORDINATION OF CYBERNETICS RESEARCH WORK IN THE UKRAINE. 14 Oct 63, 5p JPRS: 21448.
Order from OTS $7. 25 in TT-63-31941 (p. 597-601)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9.

Srapyan, Sh. O. and Ter-Mikaelyan, T. M.
ON A METHOD FOR EVALUATING THE SITUATION IN THE GAME OF NOUGHTS AND CROSSES.
14 Oct 63, 10p JPRS: 21448.
Order from OTS $7. 25 in TT-63-31941 (p. 295-304)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Ter-Mikaelyan, T. M.
PROGRAMMING OF BRANCHING PROCESSES.
14 Oct 63, 41p 3refs JPRS: 21448.
Order from OTS $7. 25 in TT-63-31941 (p. 243-283)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Yablonskii, S.V.
SUPERPOSITIONS OF FUNCTIONS IN P_k. 14 Oct 63, 6p 4refs JPRS: 21448.
Order from OTS $7. 25 in TT-63-31941 (p. 586-591)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Yanovskaya, E. B.
AN ITERATIVE METHOD FOR SOLVING TWO-MATRIX GAMES. 14 Oct 63, 24p 7refs JPRS: 21448.
Order from OTS $7. 25 in TT-63-31941 (p. 305-328)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Yao, Chao-fei.
APPLICATION OF THE METHOD OF INTERPOLATION FOR FINDING WORDS IN A DICTIONARY IN MACHINE TRANSLATION. 14 Oct 63, 9p 5refs JPRS: 21448.
Order from OTS in TT-63-31941 (p. 537-545)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Yu, Chien-ming and Chang Po.
A WELL MANAGED LABORATORY. 24 Oct 63, 4p JPRS: 21587.
Order from OTS $2. 25 in TT-63-31998 (p. 18-21)

Trans. from Kuang Ming Jih Pao (Chinese People's Republic) 1963, 5 Sep, p. 2. (Abstract available)

Zakharova, E. Yu.
SYSTEM SYNTHESIS WITH THRESHOLD ELEMENTS.
14 Oct 63, 5p 4refs JPRS: 21448.
Order from OTS $7. 25 in TT-63-31941 (p. 561-565)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Zdravomyslov, A. G., Yadov, V. A., and Novik, I. V.
PROGRAMMING CONCRETE SOCIAL RESEARCH [AND] GNOSIOLOGICAL DESCRIPTION OF CYBERNETIC MODELS. 8 Nov 63, 56p 3refs JPRS: 21807.
Order from OTS $1.50 TT-63-41108

Trans. of Voprosy Filosofii (USSR) 1963, v. 17, no. 8, p. 74-83, 92-103.

Communication Theory

Bykov, Yu. M.
DETERMINATION OF MEAN SQUARE INTERPOLATION ERROR FOR DISCRETE MEASUREMENT OF RANDOM SIGNALS, tr. by B. W. Kuvshinoff.
30 Aug 63, 11p 7refs APL/JHU TG 230-T399.
Contract NOw 62-0604-c
Order from OTS $0.50 TT-63-11720

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Energetika i Avtomatika, 1962, no. 6, p. 113-119. (Abstract available)

Kaden, H.
THE TRANSMISSION CHARACTERISTICS OF NETWORKS WITH PERIODIC SWITCHES. [1963] 49p 6refs
Order from SLA $4.60 TT-63-20616

Trans. of Frequenz (West Germany) 1961, v. 15, no. 5, p. 141-155. (Abstract available)

Information Theory

Arutynov, N. B.
IMPROVING THE ORGANIZATION OF SCIENTIFIC-INFORMATION ACTIVITIES IN THE COUNTRY AND THE TASKS OF THE VINITI. 30 Aug 63, 9p JPRS: 20860.
Order from OTS $1.75 in TT-63-31647 (p. 1-9)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 2, p. 3-6.

Bongard, M. M.
THE CONCEPT OF "USEFUL INFORMATION". 14 Oct 63, 73p 6refs JPRS: 21448.
Order from OTS $7.25 in TT-63-31941 (p. 113-185)

Trans. from #Problemy Kibernetiki (USSR) 1963, no. 9. (Abstract available)

Romanov, V. P.
CONVERSION OF IMAGES IN A MODEL OF A CONTINUOUS NEURON NETWORK. 30 Aug 63, 17p 6refs JPRS: 20860.
Order from OTS $1.75 in TT-63-31647 (p. 23-39)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 2, p. 36-41. (Abstract available)

SOCIAL SCIENCES

MAJOR INDUSTRIAL TRENDS. 23 Oct 63, 3p JPRS: 21562.
Order from OTS $2.00 in TT-63-31991 (p. 20-22)

Trans. from Pravda, Moscow (USSR) 1963, 22 Aug.

USSR INDUSTRIAL DEVELOPMENT: SOVIET REGIONAL ECONOMY NO. 77. 23 Oct 63, 68p JPRS: 21562.
Order from OTS $2.00 TT-63-31991

Consists of 20 articles from 1963 issues of Russian journals and newspapers. Separate entries have been prepared for 9 articles.

Akulintsev, V. K.
RATES OF DEVELOPMENT, OF WHICH CENTRAL ASIA IS NOT AWARE. 23 Oct 63, 8p JPRS: 21562.
Order from OTS $2.00 in TT-63-31991 (p. 41-48)

Trans. from Kommunist Tadzhikistana (USSR) 1963, 30 Aug.

Gavrilenko, N.
PETROLEUM PRODUCTION PROBLEMS NEED ANSWERS. 23 Oct 63, 5p JPRS: 21562
Order from OTS $2.00 in TT-63-31991 (p. 54-58)

Trans. of Rabochaya Gazeta (USSR) 1963, 16 Aug, p. 2.

Loshchenkov, F.
ECONOMIC WORK UNDER FOCUS. 23 Oct 63, 6p JPRS: 21562.
Order from OTS $2.00 in TT-63-31991 (p. 1-6)

Trans. from Ekonomicheskaya Gazeta (USSR) 1963, no. 33(106) p. 4

Markelov, M.
CONSTRUCTION SUCCESS: IN THE CONCENTRATION OF FORCES. 23 Oct 63, 4p JPRS: 21562.
Order from OTS $2.00 in TT-63-31991 (p. 37-40)

Trans. from Izvestiya (USSR) 1963, 28 Aug, p. 1.

Markelov, M.
THE EASTERN SIBERIAN COMPLEX. 23 Oct 63, 4p JPRS: 21562.
Order from OTS $2.00 in TT-63-31991 (p. 33-36)

Trans. from Izvestiya (USSR) 1963, 31 Jul. (Abstract available)

Matveev, S.
PUBLIC INSPECTION OF ECONOMIC WORKS. 23 Oct 63, 5p JPRS: 21562.
Order from OTS $2.00 in TT-63-31991 (p. 13-17

Trans. from Pravda, Moscow (USSR) 1963, 22 Aug.

Razumov, N.
SPECIALIZATION IS AN IMPORTANT CONDITION OF THE ECONOMY OF PUBLIC LABOR. USSR Industrial Development: Soviet Regional Economy no. 78. 28 Oct 63, 10p JPRS: 21614.
Order from OTS $0.50 TT-63-41015

Trans. of Sotsialisticheskii Trud (USSR) 1963 [v. 8] no. 7, p. 71-78.

Rozenko, P.
PRODUCTION DEFICIENCIES IN THE UKRAINE. 23 Oct 63, 7p JPRS: 21562.
Order from OTS $2.00 in TT-63-31991 (p. 23-29)

Trans. from Pravda, Moscow (USSR) 1963, 17 Aug, p. 2.

Timoshenko, I.
INCREASING FINANCIAL CONTROL IN ENTERPRISE ACTIVITIES. 23 Oct 63 6p JPRS: 21562.
Order from OTS $2.00 in TT-63-31991 (p. 7-12)

Trans. of Kommunist Moldavii (USSR) 1963 [v. 8] no. 7, p. 56-59.

Documentation

FOREIGN DEVELOPMENTS IN MACHINE TRANSLATION AND INFORMATION PROCESSING NO. 135. 12 Aug 63, 129p 44refs JPRS: 20592.
Order from OTS $2.75 TT-63-31502

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 1, p. 3-10, 14-33, 38-39, 48-49. Separate entries have been prepared for the individual articles.

MEETINGS, SEMINARS, AND PUBLICATIONS. 12 Aug 63, 5p 3refs JPRS: 20592.
Order from OTS $2.75 in TT-63-31502 (p. 125-129)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 1, p. 48-49.

A. M.
SYMPOSIUM ON STRUCTURAL STUDY OF SIGN SYSTEMS. 12 Aug 63, 7p JPRS: 20592.
Order from OTS $2.75 in TT-63-31502 (p. 118-124)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963. no. 1, p. 38-39.

Bernshtein, E. S., Lakhuti, D. G., and Chernyavskii, V. S.
PROBLEMS IN THE CONSTRUCTION OF DESCRIPTOR INFORMATION SEARCH SYSTEMS. 12 Aug 63, 12p JPRS: 20592.
Order from OTS $2.75 in TT-63-31502 (p. 106-117)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 1, p. 31-33. (Abstract available)

Chernyi, A. I.
SEVERAL PROBLEMS IN CONSTRUCTION OF INFORMATION RETRIEVAL SYSTEMS. 12 Aug 63, 38p 37refs JPRS: 20592.
Order from OTS $2.75 in TT-63-31502 (p. 68-105)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 1, p. 24-30. (Abstract available)

Guneev, G.
MECHANIZATION OF DOCUMENT PREPARATION, tr. by J. B. 20 May 63, 6p.
Order from OTS, SLA, or ETC $1.10 TT-63-19629

Trans. from Ekonomicheskaya Gazeta (USSR) 1963 [no. 11(84)] p. 20.

Kurbakov, K. I. and Smirnov, R. V.
INFORMATION SEARCH IN A DICTIONARY BASED ON THE METHOD OF COMPRESSING CODES. 30 Aug 63, 14p 11refs JPRS: 20860.
Order from OTS $1.75 in TT-63-31647 (p. 51-64)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 2, p. 46-49. (Abstract available)

Medvedkov, Yu. V.
CYCLICAL FLOW OF SCIENTIFIC INFORMATION AND ACTIVITY OF VINITI. 12 Aug 63, 13p JPRS: 20592.
Order from OTS $2.75 in TT-63-31502 (p. 16-28)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 1, p. 7-10) (Abstract available)

Mikhailov, A. I.
PROBLEMS IN SCIENTIFIC INFORMATION. 12 Aug 63, 15p JPRS: 20592.
Order from OTS $2.75 in TT-63-31502 (p. 1-15)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 1, p. 3-6. (Abstract available)

Polushkin, V. A.
RAISING THE QUALIFICATIONS OF SCIENTIFIC INFORMATION PERSONNEL (FROM EXPERIENCE GAINED IN THE ALL-UNION INSTITUTE OF SCIENTIFIC AND TECHNICAL INFORMATION). 12 Aug 63, 13p JPRS: 20592.
Order from OTS $2.75 in TT-63-31502 (p. 29-41)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 1, p. 14-17. (Abstract available)

Shvarts, A. M., Trakhtengerts, E. A., Bruk, B. N., Purto, V. A., and Fishkina, V. L.
EXPERIMENT IN WORD-FOR-WORD TRANSLATION OF PATENT LITERATURE IN ENGLISH ON THE STRELA-3 COMPUTER. 30 Aug 63, 11p JPRS: 20860.
Order from OTS $1.75 in TT-63-31647 (p. 40-50)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 2, p. 42-45. (Abstract available)

Vinogradov, V. I. and Fedoseeva, K. I.
METHODOLOGY FOR USING UNIVERSAL DECIMAL CLASSIFICATION. 12 Aug 63, 26p 1ref JPRS: 20592.
Order from OTS $2.75 in TT-63-31502 (p. 42-67)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 1, p. 18-23. (Abstract available)

Vleduts, G. E. and Stokolova, N. A.
ARBITRARY BLOCK SYSTEM OF CODING CHEMICAL COMPOUNDS. 30 Aug 63, 13p 11refs JPRS: 20860.
Order from OTS $1.75 in TT-63-31647 (p. 10-22)

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1963, no. 2, p. 23-28. (Abstract available)

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BR-SOV/6232
Fialko, Yevgeniy Iosifovich
SOME PROBLEMS IN RADIOLOCATION OF METEORS (Nekotoryye problemy radiolokatsii meteorov) Tomsk, Izd-vo Tomskogo univ., 1961. 208 p. 600 copies printed.

BR-SOV/6285
Filippov, Yevgeniy Mikhaylovich
APPLIED NUCLEAR GEOPHYSICS; THE APPLICATION OF SOURCES OF ATOMIC RADIATION IN GEOLOGY AND GEOPHYSICS (Prikladnaya yadernaya geofizika; primeneniye istochnikov yadernogo izlucheniya v geologii i geofizike) Moscow, Izd-vo AN SSSR, 1962. 579 p. Errata slip inserted. 2500 copies printed.

BR-SOV/6339
Geguzin, Yakov Yevseyevich
MACROSCOPIC DEFECTS IN METALS (Makroskopicheskiye defekty v metallakh) Moscow, Metallurgizdat, 1962. 252 p. Errata slip inserted. 5450 copies printed.

BR-SOV/6371
Vsesoyuznoye soveshchaniye po teorii veroyatnostey i matematicheskoy statistike. 6th, Vilnius, 1960.
TRANSACTIONS OF THE SIXTH CONFERENCE ON PROBABILITY THEORY AND MATHEMATICAL STATISTICS AND OF THE SYMPOSIUM ON DISTRIBUTIONS IN INFINITE-DIMENSIONAL SPACES HELD IN VILNIUS 5-10 SEPTEMBER 1960 (Trudy VI Vsesoyuznogo soveshchaniya po teorii veroyatnostey i matematicheskoy statistike i kollokviuma po raspredeleniyam v beskonechnomernykh prostranstvakh) Vilnius, Gospolitizdat LitSSR, 1962. 493 p. 2500 copies printed.

BR-SOV/6377
Dzhagatspanyan, Rafael' Vachaganovich, Rudol'f Filippovich Romm, and Lev Kirillovich Tatochenko
APPLICATION OF RADIOACTIVE ISOTOPES IN THE CONTROL OF CHEMICAL PROCESSES (Primeneniye radioaktivnykh izotopov dlya kontrolya khimicheskikh protsessov) Moscow, Goskhimizdat, 1963. 343 p. Errata slip inserted. 5000 copies printed.

BR-GER/6412
Fink, Zdenek, Docent, Doctor of Medicine; Vratislav Hrdina, Doctor of Medicine; Antonin Jakl, Doctor of Medicine; Miroslav Krejcar, Doctor of Medicine; Milan Pospisil, Doctor of Medicine; Jiri Tulach, Doctor of Medicine; and Vladislav Vondracek, Doctor of Medicine.
SANITARY PROTECTION AGAINST CHEMICAL WARFARE (Der Gesundheitsschutz gegen chemische Kampfstoffe) Berlin, VEB VG, 1962. 219 p. No. of copies printed not given.

BR-SOV/6428
Vlasov, Vasiliy Zakharovich
SELECTED WORKS. v. 2: THIN-WALLED ELASTIC BEAMS. DEVELOPMENT PRINCIPLES OF THE GENERAL ENGINEERING THEORY OF SHELLS (Izbrannyye trudy. t. II: Tonkostennyye uprugiye sterzhni. Printsipy postroyeniya obshchey tekhnicheskoy teorii obolochek) Moscow, Izd-vo Akademii nauk SSSR, 1963. 507 p. Errata slip inserted. 2000 copies printed.

BR-SOV/6430
Kogan, Boris Yakovlevich
ELECTRONIC ANALOG COMPUTERS AND THEIR APPLICATION IN THE ANALYSIS OF AUTOMATIC CONTROL SYSTEMS (Elektronnyye modeliruyushchiye ustroystva i ikh primeneniye dlya issledovaniya sistem avtomaticheskogo regulirovaniya) 2d ed., rev. and enl. Moscow, Fizmatgiz, 1963. 510 p. 20,000 copies printed.

BR-SOV/6479
Chalykh, Yevgeniy Fedorovich
TECHNOLOGY OF CARBON AND GRAPHITE MATERIALS (Tekhnologiya uglegrafitovykh materialov) Moscow, Metallurgizdat, 1963. 304 p. 2640 copies printed.

TRANSLATIONS IN PROCESS

HERALD OF COMMUNICATIONS, 1963, [VOL. 23] NO. 11: SELECTED ARTICLES.
Vestnik Svyazi (USSR) 1963 [v. 23] no. 11.

HERALD OF THE ACADEMY OF MEDICAL SCIENCES, USSR, 1963, VOL. XVIII, NO. 11.
Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1963, v. 18, no. 11.

[NEWS OF INSTITUTES OF HIGHER LEARNING. RADIO ENGINEERING.] 1963, VOL. VI, NO. 5.
Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR) 1963, v. 6, no. 5.

[NEWS OF INSTITUTES OF HIGHER LEARNING. RADIOPHYSICS] 1963, VOL. VI, NO. 4.
Izvestiya Vysshikh Uchebnykh Zavedenii. Radiofizika (USSR) 1963, v. 6, no. 4.

THERMODYNAMICS.
Mono. Termodinamika [Minsk] 1961, 365p.

TRANSACTIONS OF THE ALL-UNION SCIENTIFIC METEOROLOGICAL CONFERENCE. VOL. 1. GENERAL INFORMATION, RESOLUTIONS, AND PLENARY LECTURES.
Mono. Trudy Vsesoyuznogo Nauchnogo Meteorologicheskogo Soveshchaniya. Tom 1, Obshchie Svedeniya, Resheniya i Plenenye Doklady, Leningrad, 1962, 187p.

VARIATIONS IN THE INTENSITY OF COSMIC RAYS.
Akad[emiya] Nauk SSSR. Yakutskii Filial, Yakutsk. Tr[udy]: Ser[iya] Fiz[icheskaya] 1962, no. 4, 164p.

Barsukov, O. A.
RADIOACTIVE INVESTIGATION OF OIL AND GAS WELLS.
Mono. Radioaktivnye Issledovaniya Neftyanykh i Gazovykh Skvazhin, Moscow, 1962.

Belyaev, A. I., ed.
SURFACE PHENOMENA IN METALLURGICAL PROCESSES.
Mono. Poverkhostnye Yavleniya v Metallurgicheskikh Protsessakh, Moscow, 1963, 267 p.
To be published by CB after 3d quarter 1964.

Cheng, Tso-Hsin
CHINA'S ECONOMIC FAUNA-AVIFAUNA.
Mono. Chung-kuo Ching-chi Tung-wu Chih - Niao-lei, Peiping, Mar 63, p. 1-694.

Fedyaevskii, K. K. and Sobolev, G. B.
THE STEERABILITY OF A SHIP
Russian mono. Upravlyaemost' Korablya, n.p., 1963, p. 1-375.

Gerasimov, I. P., Armand, D. L., and Efron, K. M. eds.
NATURAL RESOURCES OF THE SOVIET UNION: THEIR USE AND CONSERVATION.
Mono. Prirodnie Resursy Sovetskogo Soyuza: Ikh Ispolzovanie i Vosproizvodstvo, Moscow, 1963.
To be published by W.H. Freeman and Co., 660 Market St., San Francisco, Calif., in 1965 approx.

Ibn Abi Usaibiah [Ahmed]
HISTORY OF PHYSICIANS.
Mono. pub. [Cairo, 1882?] 602p.

Korostelev, A. A.
AUTOMATIC MEASUREMENT OF COORDINATES
Mono. Avtomaticheskoe Ismerenie Koordinat, Moscow, 1961, p. 1-103.

Kuanetsov, S. I. and Romanenko, V. I.
MICROBIOLOGICAL INVESTIGATION OF INLAND RESERVOIRS
Mono. Mikrobiologicheskoe Izuchenie Vnutrennikh Vodoemov, Moscow-Leningrad, 1963, p. 1-129

Lyot, B.
RESEARCH ON THE POLARIZATION OF THE LIGHT OF THE PLANETS AND OTHER TERRESTRIAL SUBSTANCES (Recherches sur la Polarisation de la Lumiere des Planetes et de Quelques Substances Terrestres).
Observ[atoire de] Paris [Meudon]. Ann[uaire] (France) 1929, v. 8, no. 1.

Marisov, V. I. and Kucherov, I. K.
GUIDED MISSILES.
Mono. Upravlyaemye Snaryady, Moscow, 1959, p. 1-303.

Mirtov, B. A.
GAS COMPOSITION OF THE EARTH'S ATMOSPHERE AND METHODS OF ITS ANALYSIS.
Mono. Gazovyi Sostav Atmosfery Zemli i Metody Ego Analiza [Moscow] 1961, 262p.

Mkhitaryan, A. M.
HYDRAULICS AND FUNDAMENTAL GAS DYNAMICS
Mono. Gidravlika i Osnovy Gazodinamiki [Kiev] 1959, 279p.

Parin, V. V. and Meerson, F. Z.
OUTLINES OF CLINICAL PHYSIOLOGY OF BLOOD CIRCULATION.
Mono. Ocherki Klinicheskoi Fiziologii Krovoobrashcheniya, Moscow, 1960, 427p.

Pikel'ner, S. B.
FUNDAMENTALS OF COSMIC ELECTRODYNAMICS
Mono. Osnovy Kosmicheskoi Elektrodinamiki, Moscow, 1961, 295p.

Pogorelov, A. V.
POST-BUCKLING OF CYLINDRICAL SHELLS. PART I: AXIAL COMPRESSION. PART II: EXTERNAL PRESSURE.
Mono. Tsilindricheskie Obolochki pri Zakriticheskikh Deformatsiyakh. 1. Osevoe Szhatie. 2. Vneshnee Davlenie, Khar'kov, 1962.

Rozenberg, G. V.
TWILIGHT
Mono. Sumerki, Moscow, 1963, 380 p.
To be published by CB after Oct 64.

Rus'kin, V. I.
[ENGLISH TITLE NOT GIVEN] (Issledovaniya po Fizike Vysokikh Energii i Elementarnykh Chastits; Uchet Rezonansnykh Vzaimodeistvii v Statisticheskoi Teorii Mnozhestvennogo Obrazovaniya Chastits).
Akad[emiya] Nauk Kazakh[skoi] SSR, Alma Ata. Institut Yadernoi Fiziki. Trudy, 1963, v. 6.

Sereev, A. A.
ESSAYS ON THE HISTORY OF AVIATION MEDICINE
Mono. Ocherki po Istorii Aviatsionnoi Meditsiny, Moscow, 1962, 300p.

N. P. Kurbatskii, ed.
FOREST FIRES AND THEIR CONTROL
Mono. Lesnye Pozhary i Bor'ba s Nimi, Moscow, 1963, 153 p.
To be published by CB after 3d quarter 1964.

Vedeneev, ,V. I., Gurvich, L. V. and others. ENERGY OF SEVERANCE FOR CHEMICAL BOOKS. POTENTIAL IONIZATION AND RELATION TO THE ELECTRON.

Mono. Energii Razryva Khimicheskikh Svyazei. Potentsialy Ionizatsii i Sredstvo k Elektronii, n. p. n. d., 213p.

PERIODICALS TRANSLATED COVER-TO-COVER

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Academie Nationale de Medecine Paris. Bulletin (France) 1961, ser. 3, v. 145, no. 20/21, p. 416-423	15
Acta Technica (Hungary) 1959, v. 25, no. 1/2, p. 87-117	44
Acustica (Switzerland) 1962, v. 12, no. 5, p. 322-334	62
Agrobiologiya (USSR) 1960, no. 6, p. 903-910	4
Akademiya Meditsinskikh Nauk SSSR. Vestnik, 1962, v. 17, no. 2, p. 3-9	8
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Akademiya Nauk Armyanskoi SSR Erevan. Izvestiya. Biologicheskie Nauki, 1959, v. 12, no. 12, p. 63-71	13
Akademiya Nauk Kazakhskoi SSR Alma Ata. Astrofizicheskii Institut. Trudy, 1962, v. 3, p. 62-65	3
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Akademiya Nauk SSSR. Doklady, 1948, v. 59, no. 5, p. 879-882	60
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Akademiya Nauk SSSR. Institut Fiziki Atmosfery. Trudy, 1962, no. 4, p. 203-256	62
Akademiya Nauk SSSR. Institut Fiziki Zemli. Trudy, 1962, no. 24(191) p. 116-123	32
Akademiya Nauk SSSR. Institut Geologicheskikh Nauk, 1962, no. 115, Geologicheskaya Seriya, no. 57	35
Akademiya Nauk SSSR. Institut Okeanologii. Trudy, 1961, v. 49, p. 200-204	25
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Akademiya Nauk SSSR. Komissiya po Analiticheskoi Khimii. Trudy, 1955, v. 6(9) p. 351-364	25
Akademiya Nauk SSSR. Komissiya po Opredeleniyu Absolyutnogo Vozrasta Geologicheskikh Formatsii. Byulleten', 1962, no. 5, p. 35-42	35
1962, no. 5, p. 43-47	34
Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya 1962, no. 8, p. 1322-1329	47
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Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Energetika i Avtomatika, 1962, no. 6, p. 113-119	68
Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Metallurgiya i Gornoe Delo, 1963, no. 1, p. 97-99	59
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1962, no. 2, p. 119-125	59
Akademiya Nauk SSSR. Sevastopol'skaya Biologicheskaya Stantsiya. Trudy, 1961, v. 14, p. 292-302	11
Akademiya Nauk SSSR. Sibirskoe Otdelenie. Izvestiya 1958, no. 11, p. 83-94	32
Akademiya Nauk SSSR. Vestnik, 1957, v. 27, no. 12, p. 3-7	67
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Akademiya Nauk SSSR. Yakutskii Filial, Yakutsk. Trudy: Seriya Fizicheskaya, 1962, no. 4, 164p.	B-1
Akademiya Nauk URSR, Kiev. Dopovidi, 1959, no. 1, p. 32-36	55
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Akademiya Navuk BSSR Minsk. Doklady, 1962, v. 6, no. 3, p. 147-150	61
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Akademiya Pedagogicheskikh Nauk, RSFSR. Doklady, 1961, no. 3, p. 101-104	9
1961, no. 3, p. 105-110	9
Akademiya Stroitel'stva i Arkhitektury SSSR. Institut Betona i Zhelezobetona, Perovo. Trudy, 1959, v. 5, p. 54-77	36
Akusticheskii Zhurnal (USSR) 1957, v. 3, no. 3, p. 282-285	37
1962, v. 8, no. 3, p. 367-369	46
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Analytica Chimica Acta (Netherlands) 1947, v. 1, p. 408-416	26
Antibiotiki (USSR) 1958, v. 3, no. 2, p. 94-99	10
1963, v. 8, no. 1, p. 58ff	4
1963, v. 8, no. 1, p. 69ff	7
Archiv für das Eisenhuttenwesen (West Germany) 1963, v. 34, no. 3, p. 159-166	58
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1963, v. 34, no. 5, p. 361-366	54
Archiv für Elektrotechnik (Germany) 1941, v. 35, p. 67-84	39
Arkhiv Anatomii, Gistologii i Embriologii (USSR) 1962, v. 42, no. 5, p. 90-97	4
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Astronomicheskii Zhurnal (USSR) 1963, v. 40, no. 3, p. 401-598	C-49
ATZ; Automobiltechnische Zeitschrift (Germany) 1937, v. 40, no. 19, p. 473-475	41
Ausmessung der Strömung in einer Einstufigen Druckluft-Modellturbine, n. p., n. d.	40
Aviation (sic) 1961, no. 1, Aug, p. 19-23	39
Aviatsionnyi Tekhnologicheskii Institut, Moscow. Trudy (USSR) 1962, v. 53, p. 5-22	41
Avtomaticheskaya Svarka (USSR) 1963, v. 16, no. 3, p. 7-12	55
Avtomaticheskoe Izmerenie Koordinat, Moscow, 1961, p. 1-103	B-1
Avtomaticheskoe Upravlenie i Vychislitel'naya Tekhnika (USSR) 1962, v. 5, p. 365-442	49
Avtomatika i Telemekhanika (USSR) 1963, v. 24, no. 4, p. 437-578	C-20
1963, v. 24, no. 8, p. 1155-1162	52
Avtomobil'naya Promyshlennost' (USSR) 1959, no. 4, p. 42-45	40
1960, no. 4, p. 23-24	40
Bänder, Bleche, Rohre (West Germany) 1962, no. 4, p. 187-189	54
1963, no. 4, p. 174-178	40
Berg- und Hüttenmannische Monatshefte (Austria) 1963, v. 108, no. 7	54
Beton Herstellung Verwendung (West Germany) 1962, v. 12, no. 12, p. 545-552	37
Bezopasnost' Truda v Promyshlennosti (USSR) 1961, v. 5, no. 9, p. 21-22	39
Biofizika (USSR) 1962, v. 7, no. 2, p. 225-226	11
1963, v. 8, no. 2, p. 172-180	10
1963, v. 8, no. 3, p. 394-395	11
Bol'shaya Sovetskaya Entsiklopedia (USSR) 2d ed, 1954, v. 29, p. 470	9
Botanicheskii Zhurnal (USSR) 1943, v. 28, no. 4, p. 154-170	11
Bunseki Kagaku (Japan) 1956, v. 5, no. 1, p. 7-11	26
Byulleten' Eksperimental'noi Biologii i Meditsiny (USSR) 1962, v. 53, no. 1, p. 112-117	23
1962, v. 53, no. 2, p. 9-13	9
Byulleten' Stantsii Opticheskogo Nablyudeniya Iskusstvennykh Sputnikov Zemli (USSR) 1960, no. 10-20, p. 12-23	39
Byulleten' Tekhniko-Ekonomicheskoi Informatsii (USSR) 1963, no. 5, p. 3-5	41
Center d'Etude de l'Energie Nucleaire, Brussels (Belgium) 1959, v. 9, p. 112-117	60
Chekhoslovatskii Fizicheskii Zhurnal, 1959, v. 9, p. 112-117	62
Chung Hua Wai K'o Tsa Chih (Chinese People's Republic) 1963, v. 11, no. 7, p. 514-515	15
1963, v. 11, no. 7, p. 530-531	22
1963, v. 11, no. 7, p. 536	6
1963, v. 11, no. 7, p. 570	18
Chung-kuo Ching-chi Tung-wu Chih - Niao-lei, Peiping, Mar 63, p. 1-694	B-1
Chung Kuo Hsin Wen (Chinese People's Republic) 1963, 26 Aug, p. 5	1
1963, 28 Aug, p. 6	13
1963, 29 Aug, p. 5	24

Journal	Page
Chung Kuo Nung Yeh K'o Hsüeh (Chinese People's Republic)	
1963, no. 4, p. 45-48	1
1963, no. 4, p. 45-48	65
1963, no. 5, p. 53	1
1963, no. 5, p. 54	24
Comite Europeen du Beton, Paris. Bulletin d'Information (France)	
n.d. no. 19	36
Commissariat a l'Energie Atomique, Paris (France)	
13 Jun 61	61
2 Jul 62	61
15 Oct 62	61
Denshi Shashin (Japan)	
1962, v. 4, no. 2, p. 1-4	45
Deutsche Bunsengesellschaft für Physikalische Chemie e. V., Münster. Bericht (West Germany)	
1963, v. 67, no. 2, p. 151-156	29
Deutsche Keramische Gesellschaft. Berichte (West Germany)	
1962, v. 39, no. 7, p. 376-381	43
Deutsche Luftwacht: Luftwissen (Germany)	
1940, v. 7, no. 4, p. 101-103	53
Deutsche Medizinische Wochenschrift (West Germany)	
1957, v. 82, p. 342-346	23
Ekonomicheskaya Gazeta (USSR)	
1963, no. 3(76)	41
1963, no. 11(84) p. 20	70
1963, no. 33(106) p. 4	69
1963, no. 33(106) p. 7	53
1963, no. 34(107) p. 5	55
1963, no. 34(107) p. 17	53
Elektricheskie Stantsii (USSR)	
1957, v. 28, no. 3, p. 19-21	40
1961, v. 32, no. 8, p. 58-62	37
1961, v. 32, no. 11, p. 73-76	38
1961, v. 32, no. 11, p. 76-79	58
1962, v. 33, no. 1, p. 60-64	38
Elektrichestvo (USSR)	
1962, no. 1, p. 10-11	38
Energii Razryva Khimicheskikh Svyazei. Potentsialy Ionizatsii i Sredstvo k Elektronii,	
n.p., n.d., 213p.	B-2
Energomashinostroenie (USSR)	
1961, v. 7, no. 11, p. 39-40	35
Entomologicheskoe Obozrenie (USSR)	
1957, v. 36, no. 3, p. 625-631	1
1957, v. 36, no. 4, p. 877-894	24
1962, v. 41, no. 2, p. 249-482ff	C-25
Farmakologiya i Toksikologiya (USSR)	
1963, v. 26, no. 4, p. 403-405	12
Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoe Primenenie: Sbornik Rabot, Leningrad,	
1962, 225p.	18
1962, 225p.	19
1962, 225p.	20
1962, 225p.	21
1962, 225p.	22
1962, 225p.	23
FIAT, S.A., Turin (Italy)	
31 Jul 62	61
Fizika Metallov i Metallovedenie (USSR)	
1962, v. 13, no. 2, p. 306-308	64
1962, v. 14, no. 5, p. 641-800	C-47
Fizika Tverdogo Tela (USSR)	
1963, v. 5, no. 5, p. 1233-1486	C-57
Fiziologicheskii Zhurnal SSSR	
1962, v. 48, no. 7, p. 823ff	4
1962, v. 48, no. 7, p. 850ff	8
1962, v. 48, no. 11, p. 1311ff	6
1962, v. 48, no. 11, p. 1377ff	5
1962, v. 48, no. 11, p. 1392ff	4
Fiziologichnyi Zhurnal (USSR)	
1962, v. 8, no. 1, p. 86-92	7
1962, v. 8, no. 1, p. 100-106	7
Flotatsiya Rud Redkikh Metallov i Olova, Moscow,	
1960, p. 254-258	36
Forschung auf dem Gebiete des Ingenieurwesens (Germany)	
1937, v. 8, no. 3, p. 118-130	53
Fortschritte der Chemischen Forchung (West Germany)	
1951, v. 2, p. 311-374	29
Frequenz (West Germany)	
1961, v. 15, no. 5, p. 141-155	59
Gazovyi Sostav Atmosfery Zemli i Metody Ego Analiza, Moscow,	
1961, 262p.	B-1
Geokhimiya (USSR)	
1963, no. 1, p. 3-91;	
no. 2, p. 92-93	C-26
Geologiya i Geofizika (USSR)	
1963, no. 8, p. 100-106	33
Geomagnetizm i Aeronomiya (USSR)	
1963, v. 3, no. 2, p. 223-226	65
Ghent U. (Belgium)	
n.d.	53
Gidravlika i Osnovy Gazodinamiki Kiev,	
1959, 279p.	B-1
Gidrologicheskie Prognozy Leningrad,	
1957, chap. 11, p. 391-426	35
Gigiena i Sanitariya (USSR)	
1963, v. 28, no. 6, p. 35-38	24
1963, v. 28, no. 8, p. 14-19, 61-63	39
Glastechnische Berichte (West Germany)	
1963, v. 36, no. 3, p. 73-86	43
Gornyi Zhurnal (USSR)	
1963, no. 8, p. 79-80	58
Grafitosoderzhashie Ogneupory, Moscow,	
1962, 110p.	43
Hahn-Meitner-Institut für Kerforschung, Berlin (West Germany)	
n.d.	60
Hutnik (Czechoslovakia)	
1962, v. 12, p. 586-590	54
I. G. Farbenindustrie AG, Urdingen,	
30 Apr 41 (PB-563)	28
Indikator Tolshchiny Tonkikh Sloev, Poluchaemykh Metodom Vakuumnogo Raspyleniya Materialov, Moscow,	
1961	38
Industrie Anzeiger (West Germany)	
1953, v. 75, p. 906-914	40
Instrumental'nye Stali, Moscow,	
1955, p. 67-84	57
1955, p. 322-332	57
International Symposium of the National Center for Scientific Research, Paris,	
30 June-3 July 59. Proceedings	67
Inzhenerno-Fizicheskii Zhurnal (USSR)	
1962, v. 5, no. 6, p. 21-26	65
Ionizirujushchee Izluchenie i Obmen Veshchestv, Minsk,	
1962, 174p	24
IRSID Rept-R.I. 312,	
May 63	54
Issledovanie Splavov Tsvetnykh Metallov (USSR)	
1962, v. 3, p. 143-148	56
Issledovaniya po Zharpoprochnym Splavam (USSR)	
1962, v. 9, p. 192-194	65
Issledovaniya v Oblasti Kremniiorganicheskikh Soedinenii; Sintez i Fiziko-Khimicheskie Svoistva: Sbornik Statei, Moscow,	
1962, p. 105-145, 156-167	28
Izmeritel'naya Tekhnika (USSR)	
1963, no. 4, p. 1-64	C-39
Izvestiya (USSR)	
1963, 31 Jul	69
1963, 28 Aug, p. 1	69
Izvestiya Vysshikh Uchebnykh Zavedenii. Chernaya Metallurgiya (USSR)	
1962, no. 5, p. 37-43	55
1962, no. 10, p. 31-41	54
1963, v. 6, no. 3, p. 70-76	58
1963, v. 6, no. 4, p. 20-26	54
1963, v. 6, no. 5, p. 26-33	56
1963, v. 6, no. 5, p. 44-50	55
1963, v. 6, no. 5, p. 58-64	56
1963, v. 6, no. 5, p. 65-69	54
Izvestiya Vysshikh Uchebnykh Zavedenii. Energetika (USSR)	
1959, v. 2, no. 4, p. 115-123	53
Izvestiya Vysshikh Uchebnykh Zavedenii. Gornyi Zhurnal (USSR)	
1962, v. 5, no. 3, p. 38-39	34
Izvestiya Vysshikh Uchebnykh Zavedenii. Khimiya i Khimicheskaya Tekhnologiya (USSR)	
1960, v. 3, no. 6, p. 1079-1081	25
Izvestiya Vysshikh Uchebnykh Zavedenii. Mashinostroenie (USSR)	
1960, no. 5, p. 101-105	64
Izvestiya Vysshikh Uchebnykh Zavedenii. Radiofizika (USSR)	
1961, v. 4, no. 3, p. 496-507	61
1963, v. 6, no. 4	B-1
Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika (USSR)	
1963, v. 6, no. 2, p. 117-213	37
1963, v. 6, no. 2, p. 117-126	62
1963, v. 6, no. 2, p. 127-135	38
1963, v. 6, no. 2, p. 136-142	65
1963, v. 6, no. 2, p. 143-147	63
1963, v. 6, no. 2, p. 148-155	39
1963, v. 6, no. 2, p. 156-165	38
1963, v. 6, no. 2, p. 166-172	37
1963, v. 6, no. 2, p. 173-181	38
1963, v. 6, no. 2, p. 182-190	37
1963, v. 6, no. 2, p. 191-192	62
1963, v. 6, no. 2, p. 192-194	38
1963, v. 6, no. 2, p. 195-196	38
1963, v. 6, no. 2, p. 197-199	37
1963, v. 6, no. 2, p. 199-200	39
1963, v. 6, no. 2, p. 200-203	38
1963, v. 6, no. 2, p. 204-206	39
1963, v. 6, no. 2, p. 207-209	38
1963, v. 6, no. 2, p. 210-211	37
1963, v. 6, no. 2, p. 212-213	3
1963, v. 6, no. 5	B-1
Jen Min Jih Pao (Chinese People's Republic)	
1963, 6 Aug, p. 5	7
1963, 6 Aug, p. 5	65
1963, 17 Sep, p. 5	2
Jernkontoret Stockholm Annaler (Sweden)	
1962, v. 146, no. 12, p. 924-934	57
Justus Liebigs Annalen der Chemie (Germany)	
1929, v. 473, p. 57-82	29
1940, v. 542, p. 90-122	29
Khimicheskie Volokna (USSR)	
1963, no. 1, p. 60-63	44
Khimicheskom i Biologicheskom Deistvii Ul'trazvuk, Krasnoyarsk,	
1962, p. 74-81, 156-163, 204, 206-207	26
Khimiya Zemnoi Kory, Moscow,	
1963, p. 352-365 (Trudy Geokhimicheskoi Konferentsii, Posvyashchennoi Stoletiyu so Dyna Rozhdeniya Akademiya V. I. Vernadskogo, v. 1)	33
Klinicheskaya Meditsina (USSR)	
1962, v. 40, no. 9, p. 106-111	5
1962, v. 40, no. 10, p. 36-42	6
Kogyo Kagaku Zasshi (Japan)	
1960, v. 63, no. 8, p. 1372-1376	31
Koks i Khimiya (USSR)	
1939, no. 9, p. 27-29	36
1959, no. 2, p. 20-27	44
Kolloid-Zeitschrift und Zeitschrift für Polymere (West Germany)	
1952, v. 128, no. 3, p. 125-136	47
Kolloidnyi Zhurnal (USSR)	
1963, v. 15, no. 2, p. 108-116	47
Kommunist Moldavii (USSR)	
1963, v. 8, no. 7, p. 56-59	70
Kommunist Tadzhikistana (USSR)	
1963, 30 Aug	69
Konference o Monokrystalech Prague,	
1960, (Proceedings) p. 5-7	63
1960, (Proceedings) p. 17-19	63
1960, (Proceedings) p. 20-22	63
1960, (Proceedings) p. 81-88	64
1960, (Proceedings) p. 109-123	64
1960, (Proceedings) p. 129-135	64
1960, (Proceedings) p. 155-160	43
1960, (Proceedings) p. 168-176	64
1960, (Proceedings) p. 177-180	64

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Konference o Monokrystalech, (con.) Prague,	
1960, (Proceedings) p. 192-197	60
1960, (Proceedings) p. 215-223	64
1960, Proceedings) p. 254-261	64
Konstruktsii s Zapolnitelyami iz Penoplastov, Moscow,	
1962, 187p	45
Kristallografiya (USSR)	
1962, v. 7, no. 6, p. 811-960	C-53
Kryl'ya Rodiny (USSR)	
1963, v. 14, no. 1, p. 16-17	41
Kuang Ming Jih Pao (Chinese People's Republic)	
1963, 30 Jul, p. 1	11
1963, 30 Jul, p. 1	65
1963, 30 Jul, p. 4	1
1963, 5 Sep, p. 2	68
1963, 11 Sep, p. 2	1
Kunststoffe (West Germany)	
1952, v. 42, no. 12, p. 445-449	47
Laboratornoe Delo (USSR)	
1962, v. 8, no. 8, p. 35-40	7
Legkie Splavy (Moscow)	
1958, p. 123-132 (Konf. Moscow) 1955	56
Leningrad U. Uchenye Zapiski (USSR)	
1957, no. 227, p. 5-47	59
Leningrad U. Vestnik (USSR)	
1954, v. 9, no. 11, p. 67-93	63
1959, v. 14, no. 10, Seriya Fiziki i Khimii, no. 2, p. 27-42	63
1960, v. 15, no. 3, Seriya Biologii no. 1, p. 90-98	11
Lesnye Pozhary i Bor'ba s Nimi, Moscow,	
1963, 163p.	B-1
Lijecnicki Vjesnik (Yugoslavia)	
1962, v. 84, no. 7, p. 637-701	13
1962, v. 84, no. 7, p. 637-648	15
1962, v. 84, no. 7, p. 649-659	3
1962, v. 84, no. 7, p. 661-672	17
1962, v. 84, no. 7, p. 673-678	17
1962, v. 84, no. 7, p. 679-696	17
1962, v. 84, no. 7, p. 697-698	14
1962, v. 84, no. 7, p. 698-701	14
Lijecnicki Vjesnik (Yugoslavia) (con.)	
1962, v. 84, no. 8, p. 765-818	13
1962, v. 84, no. 8, p. 765-771	14
1962, v. 84, no. 8, p. 773-779	18
1962, v. 84, no. 8, p. 781-789	14
1962, v. 84, no. 8, p. 791-796	16
1962, v. 84, no. 8, p. 797-805	14
1962, v. 84, no. 8, p. 813-814	17
1962, v. 84, no. 8, p. 815-816	16
1962, v. 84, no. 8, p. 816-818	15
Lin Yeh K'o Hsueh (Chinese People's Republic)	
1963, no. 2, p. 194	25
Listovaya Shtampovka Legirovannykh Stalei i Splavov Moscow,	
1962, p. 58-72	57
Magyar Kemiai Folyoirat (Hungary)	
1962, v. 68, no. 2, p. 54-59	59
1963, v. 69, no. 2, p. 56-60	27
Maschpribor intorg, Moscow,	
n.d., p. 3-11	37
Matematicheskii Sbornik (USSR)	
1960, v. 52-94, no. 4, p. 953-990	49
Materialprufung (West Germany)	
1960, v. 2, no. 6, p. 198-207	41
Materialy po Toksikologii Radioaktivnykh Veshchestv Moscow,	
1962, p. 160-173	24
Meditsinskaya Gazeta (USSR)	
1963, v. 26, 1 Mar, p. 3	3
Meditsinskaya Radiologiya (USSR)	
1962, v. 7, no. 3, p. 67-72	9
1962, v. 7, no. 5, p. 3-6	8
1962, v. 7, no. 5, p. 6-13	4
1962, v. 7, no. 5, p. 31-37	8
1962, v. 7, no. 5, p. 38-45	7
1962, v. 7, no. 6, p. 58-68	8
1962, v. 7, no. 7, p. 62-67	6
Memorial des Services Chimiques de l' Etat (France)	
1947, v. 33, p. 417-422	28
Metallovedenie i Termicheskaya Obrabotka Metallov (USSR)	
1962, no. 9, p. 2-5	65
1963, no. 1, p. 2-64; no. 2, p. 2-64	C-41
Metallurg (USSR)	
1963, v. 8, no. 1, p. 1-40; no. 2, p. 1-40	C-43
1963, v. 8, no. 8, p. 3-4	57
Metallurgicheskaya i Gornorudnaya Promyshlennost' (USSR)	
1963, no. 3(21) p. 83	55
1963, no. 3(21) p. 83-84	56
Meteorologiya i Gidrologiya (USSR)	
1961, no. 8, p. 3-10	31
Mikrobiologicheskoi Izuchenie Vnutrennikh Vodoemov, Moscow-Leningrad,	
1963, p. 1-129	B-1
Mikrobiologichnyi Zhurnal (USSR)	
1963, v. 25, no. 4, p. 34-39	12
Minerva Medica (Italy)	
1958, v. 49, no. 97, p. 4536-4537	19
Monatshefte für Chemie (Austria)	
1896, v. 17, p. 232-235	27
Moskovskoe Obshchestvo Ispytatelei Prirody. Byulleten'. Otdel Biologicheskii (USSR)	
1963, v. (38)68, no. 2, p. 126-129	5

Journal	Page
Narodnoe Khozyaistvo Kazakhstana (USSR)	
1963, v. 21, no. 7, p. 24-27	58
1963, v. 21, no. 7, p. 70-72	58
die Naturwissenschaften (West Germany)	
1954, v. 41, p. 447	30
Nauchno-Issledovatel'skii Institut Geologii Arktiki. Trudy (USSR)	
1962, v. 121, p. 154-164	34
Nauchno-Issledovatel'skii Institut po Bezopasnosti Rabot v Gornoi Promyshlennosti. Sbornik Statei (USSR)	
1961, v. 17, p. 10-13	40
Nauchno-Tekhnicheskaya Informatsiya (USSR)	
1963, no. 1, p. 3-10, 14-33, 38-49, 48-49	70
1963, no. 2, p. 3-6	66, 69
1963, no. 2, p. 23-28	66, 70
1963, no. 2, p. 36-41	66, 69
1963, no. 2, p. 42-45	66, 70
1963, no. 2, p. 46-49	66, 70
Nauchno-Tekhnicheskie Obshchestva SSSR,	
1963, v. 5, no. 7, p. 22-23	59
1963, v. 5, no. 7, p. 46-48	59
Nauka i Tekhnika (Latvian SSR)	
1963, no. 7, p. 34-35	58
Nauka i Zhizn' (USSR)	
1963, v. 30, no. 4, p. 35-39	9
Nauka Polska,	
1963, v. 11, no. 3(45) p. 113-138	31
Naunyn-Schmiedeberg's Archiv für, Experimentelle Pathologie und Pharmakologie (West Germany)	
1951, v. 212, no. 1/2, p. 129-131	22
Neftekhimiya (USSR)	
1962, v. 2, no. 1, p. 21-27	46
1962, v. 2, no. 3, p. 318-323	46
Nekotorye Voprosy Mekhaniki, Sbornik, Statei, Moscow,	
1962, p. 5-13	51, 52
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1962, p. 26-32	51, 52
1962, p. 107-126	51, 52
Neue Hütte (East Germany)	
1962, v. 7, no. 11, p. 651-658	55
Nord Industriel et Commercial (France)	
1962, v. 29, Dec, spec. no. on Dunkirk, p. 22-23, 26, 35	41
Norsk Skogindustri (Norway)	
1962, v. 16, no. 11, p. 458-469	48
Nova Mysl (Czechoslovakia)	
1963, no. 7, p. 815-826	67
Novoe v Khimii i Tekhnologii Tsementa Moscow,	
1962, p. 61-66	31
Observatoire de Paris, Meudon. Annuaire (France)	
1929, v. 8, no. 1	B-1
Ocherki Klinicheskoi Fiziologii Krovoobrashcheniya, Moscow,	
1960, 427p.	B-1
Ocherki po Istorii Aviatsionnoi Meditsiny, Moscow,	
1962, 300p.	B-1
Ochistka ot Sery Koksoval'nogo i Drugikh Goryuchikh Gazov 2 ed., Moscow,	
1960, pt. 2, chap. 7, p. 96-98	35
1960, pt. 4, chap. 20, p. 254-273	35
Ogneupory (USSR)	
1946, v. 11, no. 6, p. 35-37	36
Okeanologiya (USSR)	
1962, v. 2, no. 1, p. 139-143	32
1962, v. 2, no. 6, p. 961-969	25
Optika i Spektroskopiya (USSR)	
1963, v. 15, no. 2, p. 145-288	C-45
Osnovy Kosmicheskoi Elektrodinamiki, Moscow,	
1961, 295p.	B-1
Osobo Opasnye i Prirodnoochagovye Infektsii, Moscow,	
1962, 272p.	9, 11-18, 20-23
Parazitologicheskii Sbornik (USSR)	
1958, v. 18, p. 239-254	24
Patent (Austria)	
183 758, add.	28
Patent (Austria) (con.)	
199 193	28
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Patent (Denmark)	
81 494	42
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535 523, add. 1	42
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1 106 384	35
1 186 897	37
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32-6848	54
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128 193	27
142 706	37
145 064	51
147 044	65
147 672	62
152 149	40
Pervichanaya Produktsiya Morei i Vnutrennikh Vod, Minsk,	
1961, p. 319-327	1
Pochvovedenie (USSR)	
1962, no. 6, p. 1-109	C-63
Poligraficheskoe Proizvodstvo (USSR)	
1962, no. 1, p. 11-14	42
Polskie Towarzystwo Geologiczne Rocznik,	
1962, v. 32, no. 1, p. 107-114	34
Poroshkovaya Metallurgiya (USSR)	
1963, v. 3, no. 3, p. 30-36	56
1963, v. 3, no. 3, p. 110	55
Poverkhostnye Yavleniya v Metallurgicheskikh Protsessakh, Moscow,	
1963, 267p.	B-1
Prace Instytutow Hutniczych (Poland)	
1962, v. 14, p. 285-289	43
Pravda, Moscow, (USSR)	
1962, no. 329, 25 Nov.	62
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1963, no. 48, 17 Feb, p. 4	39
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1962, no. 33, p. 190-204	33
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1962, v. 26, no. 1, p. 15-21	39
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1944, v. 33	2
1962, v. 51, no. 11, p. 106-107	3
Prirodnie Resursy Sovetskog Soyuza: Ikh Ispolzovania i Vosproizvodstvo, Moscow,	
1963	B-1
Prirodnoochagovye Bolezni Cheloveka, Moscow,	
1960	14, 16, 17
Problemy Arktiki i Antarktiki (USSR)	
1959, no. 1, p. 5-10	32
Problemy Endokrinologii i Gormonoterapii (USSR)	
1963, v. 9, no. 1, p. 23ff	6
1963, v. 9, no. 1, p. 34ff	6
Problemy Fotosinteza: Doklady na Vsesoyuznoi Konferentsii po Fotosintezu (no. 2) Moskva, 21-26 Yan 57 G. Moscow,	
1959, p. 335-345	11
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Problemy Gematologii i Perelivaniya Krovi (USSR)	
1963, v. 8, no. 1, p. 38-42	5
1963, v. 8, no. 2, p. 34-36	5
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1963, no. 9, p. 1-360	66-69
Proizvodstvo Stal'nykh Trub Goryachei Trokatkoi, Moscow,	
1954, chap. 6, p. 58-93	57
Promyshlennost' Armenii (USSR)	
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Promyslovye Ryby SSSR, Moscow,	
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Prykladna Mekhanika (USSR)	
1960, v. 6, no. 4, p. 375-384	52
Rabochaya Gazeta (USSR)	
1963, 16 Aug, p. 2	69
Raboty po Khimii Rastvorov i Kompleksnykh Soedinenii (USSR)	
1954, p. 113-131	31
Radex-Rundschau (Austria)	
1962, no. 6, p. 311-331	56
1963, no. 2, p. 415-420	58
Radiatsionnaya Gigiena v. 2, Moscow,	
1962, p. 34-67, 109-126, 223-224	39
Radioaktivnye Issledovaniya Neftyanykh i Gazovykh Skvazhin, Moscow,	
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Radiobiologiya (USSR)	
1962, v. 2, no. 1, p. 134ff	5
1962, v. 2, no. 2, p. 211-215	23
Raschet Prostranstvennykh Konstruktsii (USSR)	
1958, v. 4, p. 451-475	52
Redkie Shchelochnye Elementy p. 79-85 (Vsesoyuznoe Soveshchanie po Redkim Shchelochnym Elementam) Novosibirsk,	
1958	26
Referativnyi Sbornik. Ekonomika Promyshlennosti (USSR)	
1963, no. 7, p. 92	58
Referativnyi Zhurnal. Mekhanika (USSR)	
1962, no. 4	52
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Referativnyi Zhurnal. Metallurgiya (USSR)	
1962, no. 12	C-19
Revue d'Immunologie et de Therapie Antimicrobienne (France)	
1962, v. 26, no. 5/6, p. 297-311	22
Roczniki Chemii (Poland)	
1959, v. 33, p. 849-852	47
Rukovodstvo po Opredeleniyu Uranovykh Mineralov, Moscow,	
1956, 259p.	34
Saikin no Kagaku Kogyo,	
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Sbornik Chekhoslovatskykh Khimicheskykh Rabot,	
1958, v. 23, p. 1974-1977	26
Schweisstechnische Lehr- und Versuchsanstalt, Drusiburg (West Germany)	
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Schweizer Archiv für Angewandte Wissenschaft und Technik,	
1962, v. 28, no. 12, p. 485-490	54
Scientia Sinica (Chinese People's Republic)	
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Societe Belge pour l'Energie Nucleaire, Brussels,	
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Societe Chimique de France. Bulletin,	
1950, p. D51-D65	27
Societe des Forges et Ateliers du Creusot, Paris (France) n.d.	56
Societe des Ingenieurs Civils de France. Memoires (France)	
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Soveshchanie po Dinamike Chislennosti Ryb, Moscow,	
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Sovetskaya Antarkticheskaya Ekspeditsiya. Informatsionnyi Byulleten',	
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Sovetskaya Aviatsiya (USSR)	
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Srpska Akademija Nauka. Posebna Izdanja (Yugoslavia)	
1951, v. 182, Institut za Fiziologiju Razvica, Genetiku i Selekciju, v. 1, 180p.	11
Srpsko Hemisko Drustvo (Belgrad) Glasnik (Yugoslavia)	
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Theorie et Technique de la Radiocristallographie, Paris,	
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Trudy Vsesoyuznogo Nauchnog Meteorologicheskogo Soveshchaniya. Tom 1, Obshchie Svedeniya, Resheniya i Plenenye Doklady, Leningrad,	
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Tsentral'naya Aerologicheskaya Observatoriya. Trudy (USSR)	
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Tsentral'nyi Institut Prognozov. Trudy (USSR)	
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Tsilindricheskie Obolochki pri Zakriticheskikh Deformatsiyakh. 1. Osevoe Szhatie. 2. Vneshnee Devlenie, Khar'kof,	
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Voprosy Fiziologii Vnutricherepnogo Krovoobrashcheniya s Klinicheskim Ikh Osveshcheniem, Leningrad,	
1954, 134p.	9
Voprosy Meditsinskoi Khimii (USSR)	
1962, v. 8, no. 4, p. 374-378	4
1962, v. 8, no. 4, p. 42-0423	10
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Vosstanovlenie Utrachennykh Organov, Moscow,	
1962, 141p.	6
Vsesoyuznoe Mineralogicheskoe Obshchestvo Zapiski (USSR)	
1961, v. 90, no. 3, p. 270-280	34
Vsesoyuznoe Soveshchanie po Radiatsionnoi Khimii (no. 2) Moscow, 10-14 Oct 60. Trudy,	
1962, p. 683-687	60
Vsesoyuznoe Soveshchanie po Redkim Shchelochnym Elementam (no. 1) Novosibirsk,	
1958, Redkie Shchelochnye Elementry, p. 87-96	25
Vsesoyuznoe Soveshchanie po Teorii Veroyatnostei i Matematicheskoi Statistike. 6th, Vilnius,	
1960	A-1
Vsesoyuznyi Nauchno-Issledovatel'skii Institut po Pererabotke Slantsev. Trudy,	
1959, v. 7, p. 107-119	44
Vsesoyuznyi Neftyanoi Nauchno-Issledovatel'skii Geologo-Razvedochnyi Institut. Trudy (USSR)	
1961, no. 174, Geokhimicheskii Sbornik, no. 7, p. 63-74	53
Vspuchennyi Perlit i Izdeliya na Ego Osnova, Kiev,	
1961, p. 1-10	42
Vychislitel'naya i Informatsionnaya Tekhnika, Moscow,	
1962, 222p. (Konferentsiya po Obrabotke Informatsii, Mashinnomu Perevodu i Avtomaticheskomu Chteniyu Teksta, Moscow, 24-31 Jan 61. Sbornik Materialov)	50-51
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1960, v. 2, no. 8, p. 1239-1245	29
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Zeitschrift für Angewandte Mathematik und Physik (Switzerland)	
1952, v. 3, p. 271-286	65
Zeitschrift für Angewandte Physik (West Germany)	
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Zeitschrift für Anorganische und Allgemeine Chemie (West Germany)	
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